JEA Offsite Investigation at TransMontaigne Site - Results

PREPARED FOR: JEA

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Executive Summary

As part of supplemental offsite investigations at properties adjacent to the southern boundary of JEA's Kennedy Generating Station (KGS), CH2M HILL performed investigations at the TransMontaigne facility in April and May 2010. The purpose of this Technical Memorandum (TM) is to provide a summary of the results from the TransMontaigne site investigations conducted during April-May 2010. These supplemental investigations were the continuation of previous similar work conducted at the site in September, October and November 2008.

The approved workplan for the recent investigations included surface soil sampling, TarGOST® probe studies, Geoprobe in-situ groundwater sampling, and confirmatory soil boring installation and sampling. The Geoprobe groundwater samples were analyzed for semi-volatile organic compounds (SVOCs), and selected volatile organic compounds (VOCs). Eleven surface soil samples were collected and analyzed for total arsenic. The TarGOST® results were used to identify 4 adjacent confirmatory soil boring locations where Soil samples were collected at four locations where TarGOST® results indicated possible creosote-like material. The samples were analyzed for VOCs and SVOCs, and were evaluated using petroleum fingerprinting techniques.

Results for surface soils indicate no exceedence of SCTL criteria for arsenic in any of the samples. Results for the TarGOST® study identified possible creosote-like materials in the subsurface, and also detected false positives of non-target materials, including high organic content soils. Confirmatory soil boring sample analysis identified several SVOCs which exceeded the Table II groundwater leachability criteria in samples TM-DP-29 (8-9) and TM-DP-30 (7-10).

META Environmental conducted forensic analysis of 4 confirmatory soil samples collected from the TarGOST® response zones at depths of 3 to 11 feet below land surface. The META report indicates that all four samples contain pyrogenic organic materials with a chemical signature matching that of creosote-like product which has been subjected to severe in-situ environmental degradation. The META report identifies possible coal tar or coal combustion as the likely source of these materials.

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Some groundwater samples exceeded SCTLs for several SVOCs. The overall results for soil and groundwater sampling and the META labs fingerprinting study indicate that creosote-like materials are present in the 7-10 foot bls depth range at two locations in the northeast portion of the site.

1.0 Introduction

JEA is under an Administrative Order by Consent (AOC) with the Florida Department of Environmental Protection (FDEP) to conduct site investigations and remedial activities at the former Kennedy Generating Station (KGS). CH2M HILL is currently assisting JEA in performing the required activities at KGS. JEA has met with FDEP to discuss the Resource Conservation and Recovery Act (RCRA) process for the KGS site. As a result of these meetings, FDEP requested that JEA perform additional investigations beyond the scope of the AOC and the approved Work Plan for the RCRA Facility Investigation (RFI), prepared by CDM and dated March 12, 1999.

The supplemental investigations requested by FDEP included additional on-site assessments as well as characterization investigations on off-site properties that are adjacent to the southern boundary of the KGS site (TransMontaigne and OMEGA). The work previously performed on the TransMontaigne site was presented in the CH2M HILL Technical Memorandum dated March 9, 2009. The 2010 OMEGA investigation occurred concurrently with this TransMontaigne investigation, but is presented in a separate TM.

An amendment to the existing access agreement was executed with TransMontaigne, LLC in September of 2009 to allow access for supplemental investigations to be performed in April and May, 2010. This work was performed under a Supplemental TransMontaigne Site Sampling Plan for JEA KGS Site Characterization June 25, 2009, which was approved by FDEP on September 10, 2009. The schedule for the investigations at TransMontaigne was adjusted to allow the work to be conducted at the same time as the investigations at OMEGA.

This TM documents the methodologies and results of the supplemental investigation activities conducted at the TransMontaigne site in April and May, 2010.

2.0 Summary of Field Investigation Activities

As discussed in the CH2M HILL Supplemental TransMontaigne Site Sampling Plan JEA KGS Site Characterization dated June 25, 2009, the KGS offsite investigations on the TransMontaigne property (Exhibit 1) included surface soil sampling, TarGOST® laser-induced fluorescence (LIF) probe studies by Dakota Technologies; Geoprobe temporary groundwater screen installation and in-situ groundwater sampling, and confirmatory soil boring installation and sampling, all conducted by Probe Domain, Inc. and CH2M HILL.

All sampling, well installation, grouting, documentation, quality assurance/quality control (QA/QC) and equipment decontamination activities were conducted in accordance with the Characterization Work Plan requirements and applicable FDEP SOPs. All soil and groundwater samples were picked up the day of sampling by TestAmerica labs for chemical

analysis. The sampling locations were surveyed by Bowyer-Singleton & Assoc. Additional information on each task is presented below.

2.1 Subsurface Utility Identification

Prior to beginning subsurface field work, all proposed drilling sites were marked and cleared for underground utilities and obstructions using ground penetrating radar (GPR) surveys with real-time display. Sampling locations were adjusted as necessary to accommodate existing buried structures. No buried utilities or other obstructions were encountered during the investigation.

2.2 Delineation of Creosote-like Contamination (TarGOST® Probes)

Because creosote or coke oven-tar based materials have been previously detected at KGS and similar materials were transported through a pipeline located on the adjacent properties, direct-push field screening techniques were employed to better understand the lithologic distribution of these compounds at the TransMontaigne site. A previous TarGOST® study was performed in late 2008 at the TransMontaigne facility, with results presented in the CH2M HILL Technical Memorandum "Supplemental JEA KGS Characterization Results – TransMontaigne Site", dated March 9, 2009.

For the 2010 work, a Geoprobe direct-push rig was used by Probe Domain, Inc. to advance a Tar-specific Green Optical Screening Tool (TarGOST®) laser-induced fluorescence (LIF) probe operated by Dakota Technologies, Inc. to provide real-time detection of creosote and coal tar contamination in the subsurface soils. The TarGOST® probe was specifically designed to detect these types of contaminants in the subsurface.

To further delineate creosote-like materials, the TarGOST® probe was utilized at 6 locations (designated TM-DP-25 through TM-DP-30) shown in Exhibit 2; a total of 226 linear feet of subsurface soils was logged. The work was conducted on April 13 and 14, 2010, and all borings were grouted to the land surface upon completion. The TarGOST® probe was advanced to the top of limestone at all 6 locations. The depth of the top of limestone was confirmed using a Geoprobe MC-5 discrete soil sampler after rig refusal was reached. The complete Dakota Technologies TarGOST® Project Summary is presented in Attachment 1, and includes an Interpretation Guide which discusses the methods used, results obtained, and interpretation of the results. These results are summarized in Sec. 3.1 below.

Subsurface soils at TransMontaigne site were investigated for creosote-like materials by installing Geoprobe soil borings adjacent to selected TarGOST® probe boring locations, based on the LIF response to creosote-like materials. The confirmatory soil boring locations (also designated with a "TM-DP-#" identifier) are located directly adjacent to the four of the six TarGOST® locations as shown on Exhibit 2, and the lithology of the soil cores recovered is presented in Table 1. The soil sampling depth for each boring is included in the sampling station ID name [for example, TM-DP-26 (3-4)] and corresponds to the LIF responses most likely to indicate presence of creosote-like contamination.

The 4 soil confirmatory sample target intervals for chemical analyses (shown on the table) were selected based upon the TarGOST® LIF responses that were most indicative of possible creosote presence. All soil borings were grouted to the land surface with neat Portland cement upon completion. META Environmental, Inc. analyzed the subsurface soil samples

for VOCs, SVOCs, mono- and polycyclic aromatic hydrocarbons (MAH/PAH), and total metals as part of their fingerprinting evaluation.

Analytical results are discussed in Section 3 below, and the full lab report for soils analysis is included as Appendix F to the META Forensic Report (META Forensic Report included as Attachment 2 to this CH2M HILL memo).

2.3 Delineation of Arsenic in Surface Soils

To evaluate arsenic distribution in site soils, a series of surface soil (0-6 inches depth) hand auger samples was collected on April 9, 2010, submitted to TestAmerica labs and analyzed for total arsenic. The eleven surface soil sample locations are designated TM-SB-25 through TM-SB-35, and are shown in Exhibit 2. Samples were collected in an east-west line along the north fence, at spacing of approximately 50 feet.

2.4 Identification of Organic Contamination in Groundwater

To evaluate organic compound contamination in the area of the TarGOST® investigation, eleven Geoprobe groundwater samples were collected from the six TarGOST® locations (Exhibit 2) on April 22nd, 2010. The unfiltered samples were collected by peristaltic pump and clean Teflon tubing using the low-flow purging techniques.

Groundwater investigations included installation and sampling of Geoprobe groundwater sampling screens to two discrete depths in each boring by Probe Domain on April 22, 2010. Temporary Geoprobe direct push groundwater sample locations are co-located with the six TarGOST® boring locations (Exhibit 2). Two in-situ groundwater samples were collected from each boring to further evaluate depth intervals of interest identified during the TarGOST® investigation.

Groundwater samples were designated TM-GP-25 through TM-GP-30, with an "A" and "B" depth interval sample collected in each boring. The "A" depth sampling interval was from 10 to 14 feet below land surface (bls); the "B" depth interval was from 25 to 29 feet bls. The "A" depth sample from boring TM-GP-25 could not be collected due to apparent low permeability conditions in that interval which precluded pumping a sample.

The direct push groundwater samples were collected using low flow sampling techniques via a peristaltic pump, new Teflon® tubing, and field filtration (for dissolved arsenic samples). Purge water was contained and transported to the KGS property for transfer to 55 gallon drums in the drum storage area labeled with the accumulation date and "sampling purge water".

Samples were collected in lab-provided containers and submitted to TestAmerica labs for chemical analysis. Samples were analyzed for VOCs and SVOCs using EPA methods 8260B and 8270B. Results are discussed in Section 3.4 below.

2.5 Investigation-Derived Waste

During the soil and groundwater investigations, all soil cuttings, well development water, sampling purge water, and personal protective equipment (PPE) were containerized for proper disposal. The soil cuttings were placed in a properly labeled 55 gallon drum; purge and development water was stored in separate drums for liquids only. The drums are being

stored at the KGS designated drum storage building, and have been sampled for waste characteristics. The PPE was bagged and disposed in the onsite dumpster.

3.0 Investigation Results and Discussion

3.1 Creosote Delineation

The TarGOST® LIF investigation results indicate a relatively high level of natural fluorescent response in the site soils due to the presence of organic plant matter and shell fragments in the subsurface. CH2M HILL previously provided Dakota Technologies a reference sample of creosote target product material from existing KGS well OW-7B for calibration of induce fluorescence response. The lithologic information from the 4 confirmatory soil borings (see Table 1) was also provided to Dakota Technologies to aid in interpretation of the LIF results.

Comparison of TarGOST® results to lithology indicates that LIF responses with signals lower than 60% of maximum response are best verified by confirmatory borings. The depth interval that produced responses most like the target creosote compound was from approximately 3 to 7 feet below land surface (bls). The depth interval from land surface to approximately 20 feet consists of highly organic mixtures of soils with scattered mollusk shell and wood fragments, and the depth interval from approximately 30 to 40 feet most consistently displayed responses associated with organic soil/clay and limestone. These zones produced false positive natural fluorescence responses that were confirmed by the soil borings not to be due to presence of creosote-like materials.

In boring TM-DP-26, a thin zone at 3.8 feet bls had a moderate LIF response with a waveform which was similar to the target material. A confirmatory soil boring sample was collected at this interval and confirmed a petroleum odor. In boring TM-DP-28, a zone from approximately 6-7 feet bls displayed a response waveform that closely matched the target compound. The confirmatory soil boring sample at this location indicated presence of wood and a petroleum odor. LIF boring TM-DP-29 identified the same target compound signature at the 7.5 foot depth interval, and confirmatory boring soil samples from this interval identified a petroleum odor, with black oily sand found just beneath at 8.7-9.5 feet bls. Boring TM-DP-30 displayed similar LIF responses at approximately 6 and 9 feet bls, with confirmatory soil boring samples in this interval displaying a petroleum odor and blackened soils.

The complete Dakota Technologies TarGOST® Project Summary is presented in Attachment 1. Results of laboratory analyses on the 4 confirmatory subsurface soil samples are presented in Section 3.4.1 below.

3.2 Arsenic Delineation in Surface Soils

Results of arsenic analysis performed on the 11 TransMontaigne surface soil samples indicate that arsenic was detected in all samples (see Table 2), with concentrations ranging from 1.5 milligrams per kilogram (mg/Kg) in sample TM-SB-33 to 6.7 mg/Kg in sample TM-SB-30 (see Exhibit 2 for locations).

In subsurface soil, arsenic was also detected in all 4 samples, ranging from 0.4 mg/kg in sample TM-DP-28 (7-11) to 3.3 mg/Kg in sample TM-DP-30 (7-10).

None of arsenic concentrations detected exceeded the SCTLs for commercial/industrial sites (12 mg/Kg). Results for all soil samples are summarized in Table 2, and the complete analytical report is presented in Appendix F to the META Forensic Report (see Attachment 2 to this CH2M HILL memo).

3.3 Other Inorganic Contaminants in Subsurface Soil

Table 3 presents the results of analysis for other inorganic analytes in the 4 confirmatory subsurface soil samples. Results were compared to the Florida Administrative Code (FAC) Chapter 62-777 Soil Cleanup Target Levels, Table II (FDEP 2005) which presents criteria for industrial and residential direct exposure, and leachability to surface waters and groundwater.

The metals detected included arsenic, chromium, cobalt, lead, and vanadium. None of the detected inorganic analytes were present in concentrations which exceeded the criteria. The complete analytical report is presented in Appendix F to the META Forensic Report (see Attachment 2 to this CH2M HILL memo).

3.4 Organic Contaminant Identification

3.4.1 Subsurface Soils

The 4 confirmatory soil samples collected adjacent to TarGOST® borings were visually described over the whole target interval sampled, typically a 4 or 5 foot interval (Table 1). The soil sample designations consist of the TarGOST® boring location names, such as "TM-DP-26", followed by the discrete depth interval ("3-4", etc.) in feet below land surface where each confirmatory soil boring sample was collected for analysis.

META Environmental analyzed the samples for MAHs/PAHs and performed fingerprinting analyses, and subcontracted to TestAmerica for VOC and SVOC analyses, as discussed in Section 2.2 above. Table 4 summarizes the results, and the complete analytical report is presented in Attachment 2, where the META report incorporates the TestAmerica analytical results in its Appendix F.

The VOC/SVOC analytical results were compared to the FAC Chapter 62-777 Soil Cleanup Target Levels, Table II values for direct exposure at industrial sites and leachability to groundwater. No VOCs exceeded the SCTL values, although several PAHs exceeded the Table II groundwater leachability criteria in samples TM-DP-29 (8-9) and TM-DP-30 (7-10).

"Table 1, Sample- Specific Comments" in the META Environmental Forensic Report (Attachment 2) indicates that all four of the confirmatory soil boring samples displayed organic compound distribution similar to weathered or biologically degraded creosote and/or tar-like materials. Fingerprinting analyses by META indicate that the compounds in these samples may have originated in coal tars, with varying degrees of environmental degradation.

3.4.2 Groundwater

Table 5 summarizes the groundwater sample analytical results for VOCs and SVOCs, as well as the applicable Groundwater Cleanup Target Levels (GCTLs) and Natural

Attenuation Default Source Concentrations (NADSCs) from Table V in Chapter 62-777, FAC. The complete TestAmerica groundwater analytical report is included in Attachment 3.

Several VOCs were detected above the laboratory Practical Quantitation Limits (PQLs) in 2 of the 11 samples: TM-DP-26-B and TM-DP-27-B (Table 5). However, only benzene exceeded the GCTL, with values of 17 µg/L and 22 µg/L respectively, at these 2 locations. No GCTLs were exceeded in the other samples. Methyl tert-butyl ether was reported at values between the Method Detection Limit (MDL) and PQL in samples TM-DP-26-A, TM-DP-28-A, TM-DP-29-A, TM-DP-29-B, TM-DP-30-A, and TM-DP-30-B. Total xylenes and m- and p-xylene were reported between the MDL and PQL for sample TM-DP-27-A.

Several PAHs were detected in sample TM-DP-26-B, the deeper groundwater sample near the west boundary of the study area (Table 5). Of those detections, 1-methylnaphthalene, acenaphthene, and naphthalene exceeded the GCTLs. Fluorene was detected in all shallow and deep groundwater samples, with concentrations ranging from 0.52 µg/L at location TM-DP-26-A to 86 µg/L at TM-DP-26-B. All of the fluorene values were lower than the GCTL. Acenaphthene was also detected in all samples, and the concentrations from all of the deeper samples exceeded the GCTL, as well as TM-DP-30-A. However, only the samples from TM-DP-26-B and TM-DP-27-B exceeded the NADSC for acenaphthene.

Based on the soil samples, including the META fingerprinting study, creosote-like materials are present in soils in the 7-10 foot bls depth range at two locations in the northeast portion of the site. PAHs in groundwater, primarily acenaphthene, exceeded the GCTL in the samples from the 25–29 foot bls depth at all six locations sampled. Acenaphthene also exceeded the GCTL in the groundwater sample from 10–14 feet bls at TM-DP-30-A, the eastern-most location sampled. Groundwater results also showed benzene exceedances of the GCTL and detections of other VOCs typically associated with petroleum sources at locations TM-DP-26 and TM-DP-27, near the western boundary of the study area at TransMontaigne.

4.0 References

CDM, 1999. Work Plan for the RCRA Facility Investigation (RFI), Kennedy Generating Station. Prepared for JEA, March 12, 1999.

CH2M HILL, 2009. Supplemental JEA KGS characterization Results – TransMontaigne Site. Prepared for JEA, March 9, 2009.

CH2M HILL, 2009. Supplemental TransMontaigne Site Sampling Plan, JEA KGS Site Characterization. Prepared for JEA, June 25, 2009.

TABLE 1

Confirmatory Soil Borings - Lithologic Summary

Transmontaigne Site, JEA KGS Offsite Investigation, April 2010

Soil Boring ID	Sample Interval	LIF Target Interval	Depth	Lithology	Notes
TM-DP-26	0-5'	3-4'	0-2.0'	dark brown fine grained silty sand, plant roots, some black dense zones 1.2-1.8' - fill?	black stain, no odor
			2.0-2.1'	green clay, plastic, stiif, moist, no odor	
			2.1-4.5'	tan fine grained to medium grained sand, dense, sparse black splotches, wet , petroleum odor	petroleum odor
			4.5-5.0'	no sample - 90% sample recovery, loss assumed from this interval	
TM-DP-28	7-11'	7-11'	7.0-8.0'	medium grained brown sand, dense, wet, grades to gray downward	
			8.0-9.2'	gray-brown fine silty sand, wood fragments @8.4', 0.25" thick, possible decayed wood @9.0-9.2'	wood fragments
			9.2-11.0'	light tan fine grained sand, dense, wet, petroleum odor	petroleum odor
TM-DP-29	7-12'	8-9'	7.0-8.7'	gray medium grained sand, wet, dense, petroleum odor	petroleum odor
			8.7-9.5'	oily black sand, stiff, plastic, iridescent sheen, strong fuel odor	black stain, petroleum odor
			9.5-10.5'	tan medium sand with black streaks, dense, wet, petroleum odor	petroleum odor
			10.5-10.6'	decaying wood, black to dark brown color, dense, petroleum odor	wood fragments, petroleum odor
			10.6-12.0'	brown fine-medium grained sand, some wood fragments, dense, wet, petroleum odor	wood fragments, petroleum odor
TM-DP-30	5-10'	7-10'	5.0-8.2'	fine grained gray sand with shell fragments, wet, dense at top, petroleum odor, becoming saturated and loose from 6.5-8.2', petroleum odor, abrupt contact at 8.2'	petroleum odor
			8.2-10.0'	black tarry material, mixed with gray sand, consistency of clay, moist, plastic, stiff, strong petroleum odor	black stain, petroleum odor

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Table 2

Arsenic in Surface Soils

TransMontaigne Site, JEA KGS Off-site Investigation, April 2010

Sample Location	Units	Arsenic Concentration
TM-SB-25	mg/Kg	3.2
TM-SB-26	mg/Kg	2.6
TM-SB-27	mg/Kg	3.0
TM-SB-28	mg/Kg	2.3
TM-SB-29	mg/Kg	4.4
TM-SB-30	mg/Kg	6.7
TM-SB-31	mg/Kg	3.3
TM-SB-32	mg/Kg	2.0
TM-SB-33	mg/Kg	1.5
TM-SB-34	mg/Kg	1.7
TM-SB-35	mg/Kg	3.0
Commercial SCTL	mg/Kg	12

Notes:

mg/Kg - milligrams per kilogram, dry weight corrected

Commercial SCTL - Soil Cleanup Target Level for Commercial/Industrial sites from FAC 62-777, Table II

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TABLE 3

Other Inorganic Analytes in Subsurface Soils

TransMontaigne Site, JEA KGS Off-site Investigation, April 2010

Analyte	Units	Commercial SCTL	Leachability SCTL	TM-DP-26 (3'-4')		TM-DP-28 (7'-11')		TM-DP-29 (8'-9')		TM-DP-30 (7'-10')	
Aluminum	mg/Kg			680	V	490	V	3,100	V	8,900	V
Antimony	mg/Kg	370	5.4	0.36	U	0.34	U	0.39	IV	0.6	U
Arsenic	mg/Kg	12		1.4		0.39	I	1.9		3.3	
Barium	mg/Kg	130000	1600	3		2.4		9.9		18	
Beryllium	mg/Kg	1400	63	0.069	U	0.065	U	0.23	IV	0.46	I
Cadmium	mg/Kg	1700	7.5	0.052	U	0.049	U	0.049	U	0.088	U
Calcium	mg/Kg			170		140		23,000		34,000	
Chromium	mg/Kg	470	38	1.9		1.4		5.8		15	
Cobalt	mg/Kg	42000		0.48	I	0.26	I	0.83	I	2.2	
Copper	mg/Kg	89000		0.37	U	0.35	U	5.6		16	
Iron	mg/Kg			840	V	980	V	4,500	V	9,000	V
Lead	mg/Kg	1400		1.7		0.96		5.5		11	
Magnesium	mg/Kg			58		42	I	830		2,100	
Manganese	mg/Kg	43000		13		11		31		64	
Mercury	mg/Kg	17	2.1	0.012		0.0094	U	0.5		0.28	
Nickel	mg/Kg	35000	130	0.5	I	0.28	I	1.6	I	4.2	I
Potassium	mg/Kg			31	I	22	I	270		720	
Selenium	mg/Kg	11000	5.2	0.46	U	0.43	U	0.43	U	0.77	U
Silver	mg/Kg	8200	17	0.12	U	0.12	U	0.11	U	0.21	U
Sodium	mg/Kg			31	U	29	U	52	I	180	I
Thallium	mg/Kg	150	2.8	0.42	U	0.4	U	0.39	U	0.71	U
Vanadium	mg/Kg	10000	980	2.4		1.2		6.2		15	
Zinc	mg/Kg	630000		1.7	IV	1.6	IV	17	V	42	V

Notes:

mg/Kg - milligrams per kilogram, dry weight corrected

U - indicates that compound was analyzed for but not detected

I - The reported value falls between the laboratory method detection limit and the laboratory practical quantitation limit

V - Indicates the analyte was detected in both the sample and the associated method blank

Commercial SCTL - Soil Cleanup Target Levels for Commercial/Industrial sites from FAC 62-777, Table II

Leachability SCTL - Leachability based on groundwater criteria

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TABLE 4

VOCs and PAHs in Subsurface Soils

TransMontaigne Site, JEA KGS Off-site Investigation, April 2010

Analyte	Units	Commercial SCTL	Leachability SCTL	TM-DP-26 (3'-4')		TM-DP-28 (7'-11')		TM-DP-29 (8'-9')		TM-DP-30 (7'-10')	
Volatile Organic Compounds											
Benzene	mg/Kg	1.7	0.007	0.0057	I	0.0003	U	0.0003	U	0.0006	U
Ethylbenzene	mg/Kg	9200	0.6	0.0004	I	0.0004	U	0.0004	U	0.0007	U
Toluene	mg/Kg	60000	0.5	0.0007	U	0.0008	U	0.0007	U	0.0013	U
m-Xylene & p-Xylene	mg/Kg			0.0022	I	0.0009	U	0.0009	U	0.0015	U
o-Xylene	mg/Kg			0.0006	I	0.0005	U	0.0005	U	0.0008	
Xylenes, total	mg/Kg	700	0.2	0.0009	U	0.0009	U	0.0009	U	0.0015	U
Polynuclear Aromatic Hydrocarbons											
2-Methylnaphthalene	mg/Kg	2100	8.5	0.013	U	0.014	U	**88.00**		6.90	I
Acenaphthene	mg/Kg	20000	2.1	0.720		0.730		**79.00**		**27.00**	
Acenaphthylene	mg/Kg	20000	27	0.053	U	0.053	U	2.60	U	1.80	U
Anthracene	mg/Kg	300000	2500	0.140	I	0.150	I	66.00		24.00	
Benzo[a]anthracene	mg/Kg	0.7*	0.8	0.062	I	0.069	I	**18.00**	I	**9.80**	I
Benzo[a]pyrene	mg/Kg	0.7	8	0.023	I	0.026	I	5.60	I	3.40	I
Benzo[b]fluoranthene	mg/Kg	0.7*	2.4	0.033	I	0.036	I	**6.70**	I	**4.30**	I
Benzo[g,h,i]perylene	mg/Kg	52000	32000	0.021	U	0.021	I	2.10	I	1.20	I
Benzo[k]fluoranthene	mg/Kg	0.7*	24	0.026	U	0.026	U	4.60	I	2.50	I
Chrysene	mg/Kg	0.7*	77	0.065	I	0.068	I	15.00	I	8.70	I
Dibenz[a,h]anthracene	mg/Kg	0.7*	0.7	0.015	U	0.015	U	0.74	U	0.51	U
Fluoranthene	mg/Kg	59000	1200	0.600		0.630		130.00		61.00	
Fluorene	mg/Kg	33000	160	0.510		0.530		96.00		35.00	
Indeno[1,2,3-cd]pyrene	mg/Kg	0.7*	6.6	0.017	U	0.017	U	2.00	I	1.10	I
Naphthalene	mg/Kg	300	1.2	0.026	U	0.026	U	**91.00**		0.88	U
Phenanthrene	mg/Kg	36000	250	1.20		1.20		**350.00**		130.00	
Pyrene	mg/Kg	45000	880	0.370	I	0.370	I	86.00		44.00	

Notes: mg/Kg - milligrams per kilogram, dry weight corrected

I - The reported value falls between the laboratory method detection limit and the laboratory practical quantitation limit

U - Indicates that the compound was analyzed for but not detected

* - SCTL as Benzo[a]pyrene equivalents calculated using Toxicity Equivalency Factors in *Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.* , 2005

Bold and boxed results exceed the Table II SCTL for leachability to groundwater (FAC 62-777)

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TABLE 5

VOC and PAH Concentrations in Groundwater

TransMontaigne Site, JEA KGS Off-site Investigation, April 2010

Analyte	Units	GCTL, Table I	NADSC, Table V	TM-DP-25-B	TM-DP-26-A	TM-DP-26-B	TM-DP-27-A	TM-DP-27-B	TM-DP-28-A	TM-DP-28-B	TM-DP-29-A	TM-DP-29-B	TM-DP-30-A	TM-DP-30-B
Volatile Organic Compounds - 8260B														
Methyl tert-butyl ether	µg/L	20	200	0.21 U	0.29 I	0.21 U	0.21 U	0.21 U	0.22 I	0.21 U	0.21 U	0.82 I	0.38 I	0.53 I
Benzene	µg/L	1	100	0.28 U	0.28 U	**17**	0.46 I	**22**	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Toluene	µg/L	40	400	0.24 U	0.24 U	0.75 I	0.24 U	0.91 I	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Ethylbenzene	µg/L	30	300	0.25 U	0.25 U	9.1	0.25 U	1	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
m-Xylene & p-Xylene	µg/L	20	200	0.45 U	0.45 U	2.9	0.61 I	1.7 I	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
o-Xylene	µg/L	20	200	0.23 U	0.23 U	1.2	0.23 U	0.79 I	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Xylenes, Total	µg/L	20	200	0.68 U	0.68 U	4	0.72 I	2.50	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Polynuclear Aromatic Hydrocarbons - 8270C														
1-Methylnaphthalene	µg/L	28	280	1.8	1.7	**180**	3.9	**110**	8	4	0.2	1.7 I	31	2.4
2-Methylnaphthalene	µg/L	28	280	0.47 I	0.33	0.68 U	0.56	0.8 U	0.22	7.1	0.24	1.5 I	3	1.6 I
Acenaphthene	µg/L	20	200	**22**	5.2	**330**	5.1	**230**	18	**37**	5.6	**45**	**82**	**89**
Acenaphthylene	µg/L	210	2,100	0.038 U	0.0094 U	3 I	0.0094 U	0.47 U	0.0094 U	0.26 I	0.0094 U	0.3 I	0.094 U	0.67 I
Anthracene	µg/L	2,100	21,000	0.045 U	0.22	4.1 I	0.31	0.57 U	0.17 I	3.1	0.097 I	1.6 I	1.5 I	4.2
Benzo[a]anthracene	µg/L	0.05	5	0.072 U	0.018 U	0.76 U	0.018 U	0.9 U	0.018 U	0.74 I	0.018 U	0.18 U	0.18 U	1 I
Benzo[a]pyrene	µg/L	0.2	2	0.064 U	0.016 U	0.68 U	0.016 U	0.8 U	0.016 U	0.08 U	0.016 U	0.16 U	0.16 U	0.16 U
Benzo[b]fluoranthene	µg/L	0.05	5	0.091 U	0.023 U	0.96 U	0.023 U	1.1 U	0.023 U	0.11 U	0.023 U	0.23 U	0.23 U	0.23 U
Benzo[g,h,i]perylene	µg/L	210	2,100	0.083 U	0.021 U	0.88 U	0.021 U	1 U	0.021 U	0.1 U	0.021 U	0.21 U	0.21 U	0.21 U
Benzo[k]fluoranthene	µg/L	0.5	50	0.079 U	0.02 U	0.84 U	0.02 U	0.99 U	0.02 U	0.099 U	0.02 U	0.2 U	0.2 U	0.2 U
Chrysene	µg/L	4.8	480	0.083 U	0.021 U	0.88 U	0.021 U	1 U	0.021 U	0.59 I	0.021 U	0.21 U	0.21 U	0.8 I
Dibenz(a,h)anthracene	µg/L	0.005	0.5	0.057 U	0.014 U	0.6 U	0.014 U	0.71 U	0.014 U	0.071 U	0.014 U	0.14 U	0.14 U	0.14 U
Fluoranthene	µg/L	280	2,800	0.087 U	0.085 I	0.92 U	0.022 U	1.1 U	0.12 I	8.4	0.14 I	1.8 I	0.47 I	11
Fluorene	µg/L	280	2,800	0.95	0.52	86	0.9	62	7.8	10	1.7	28	32	32
Indeno[1,2,3-cd]pyrene	µg/L	0.05	5	0.06 U	0.015 U	0.64 U	0.015 U	0.75 U	0.015 U	0.075 U	0.015 U	0.15 U	0.15 U	0.15 U
Naphthalene	µg/L	14	140	0.51 I	0.015 U	**190**	0.15 I	13	0.093 I	0.075 U	0.45	1.3 I	0.24 I	0.15 U
Phenanthrene	µg/L	210	2,100	0.35 I	0.21	3.9 I	0.018 U	0.9 U	0.34	27	1.1	3.3	19	23
Pyrene	µg/L	210	2,100	0.11 U	0.06 I	1.2 U	0.027 U	1.4 U	0.094 I	6	0.1 I	1 I	0.27 U	7.3

Notes:

All results are in units of micrograms per liter (ug/L)

U - indicates that compound was analyzed for but not detected

I - The reported value falls between the laboratory method detection limit and the laboratory practical quantitation limit

Table I - Groundwater Cleaup Target Level (GCTL) as defined in Chapter 62-777, FAC

Table V - Natural Attenuation Default Source Concentration (NADSC) as defined in Chapter 62-777, FAC

Bold and boxed results exceed the groundwater cleanup target level (FAC 62-777, Table I)

Originated By: William G. Elliott, P.G. Signature:

Reviewed By: R. Walter Ogburn III, Ph.D. Signature:



North

0 100 200

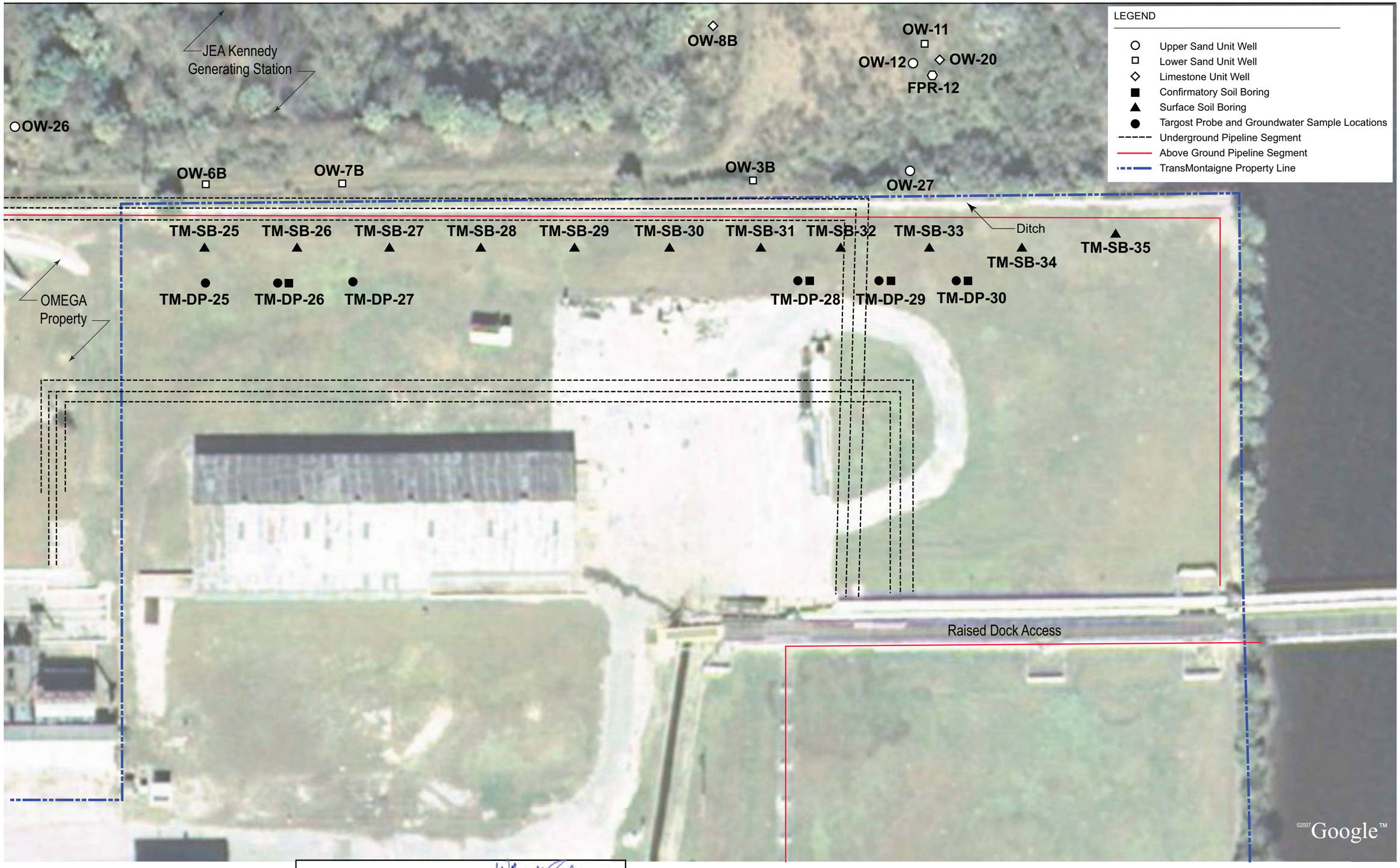
Approximate scale in feet

Originated By: William G. Elliott, P.G.	Signature:
Reviewed By: R. Walter Ogburn III, Ph.D.	Signature:

Notes: All locations are approximate.
Proposed sampling locations are subject to change based on field conditions and observations.

EXHIBIT 1
Location Map
JEA KGS Off-Site Assessment - TransMontaigne Site

CH2MHILL



North

0 25 50

Approximate scale in feet

Originated By: William G. Elliott, P.G. Signature:

Reviewed By: R. Walter Ogburn III, Ph.D. Signature:

Notes: All locations are approximate.
Proposed sampling locations are subject to change based on field conditions and observations.

EXHIBIT 2
Sampling Locations
JEA KGS Off-Site Assessment - TransMontaigne Site

ES050510071718GNV Exh2_JEA-KGS_Sampling_Locations 06/29/2010 LED

CH2MHILL

Attachment 1
TarGOST® Data Report
(See Enclosed CD)

TarGOST® Project Summary and Interpretation Guide

Land Investigation at TransMontaigne Site in Jacksonville, FL

Report Date: June 22, 2010

Prepared for: CH2M Hill
Project Manager: Walt Ogburn

Prepared by:
Tad Olsonawski
Dakota Technologies, Inc.
2201-A 12th St. N.
Fargo, ND 58102
Phone: (701) 237-4908
Fax: (701) 237-4926

This report summarizes the field deployment of Tar-specific Green Optical Screening Tool (TarGOST®) at the TransMontaigne site in Jacksonville, Florida.

This document provides a brief review of the project's scope and duration. It includes a pre-project summary, project product screening, product signal and log interpretation, and a TarGOST® users guide for reference. Interpretation of confirmation/validation sampling and correlation will be referenced to the field notes that were provided to us.

Project Summary

On Tuesday April 13th, 2010 Dakota Technologies' TarGOST operator, Tad Olsonawski, arrived at the TransMontaigne Site in Jacksonville, FL to integrate Dakota's TarGOST® system with Probe Domain's Geoprobe 6610 Track rig. After gathering for a site safety meeting we started integration which took approximately 1.5 hours and included unloading the Geoprobe, unpacking and setup the TarGOST® equipment, stringing probe rods and testing the equipment. Free product was removed from a well and placed directly onto the probe window to verify the fluorescence of the target product. The product produced a signal around 500% as shown in log NAPL-TM-19. The first TarGOST® log was generated at 11:00AM. TarGOST logging took place from April 13th through April 14th. The probing activity resulted in the completion of 6 TarGOST logs for a total of 226 feet.

General Observations or Notes of Interest

Controlling geologist on-site for CH2M Hill: Erik Svenson

Breakdowns/Standby: None

Safety Incidents: None

Data Quality Issues: None

Validation/Sampling by Dakota: NA

Verified False Positives or Interferents: NA

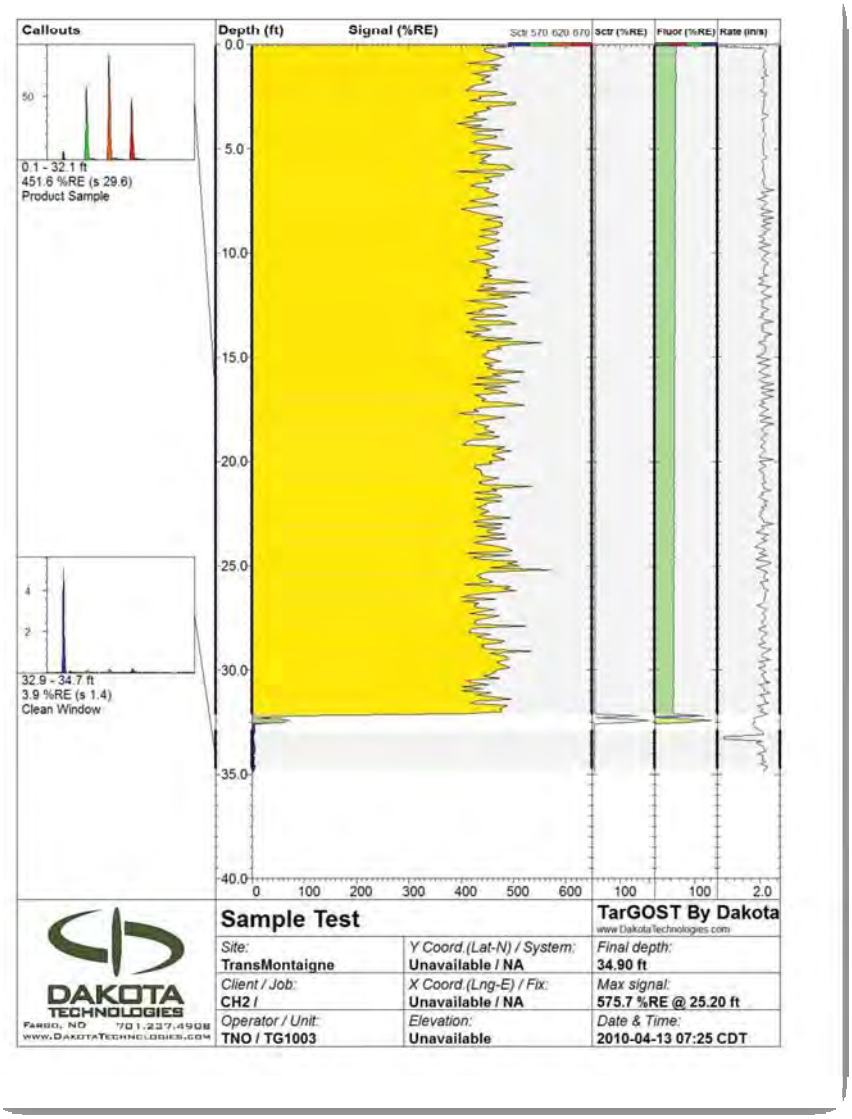
General comments: There did seem to be some naturally fluorescing material mixed into the soil layers that gave an elevated signal of about 50%.

Table of Daily Production

Date	Dakota personnel present	On-site time	Off-site time	Number of holes	Number of feet	Special Issues/Notes
Tuesday 4/13/2010	Tad Olsonawski	7:00AM	4:30PM	3	125	Integration w/ Probe Domain at TransMontaigne Site and start TarGOST logging.
Wednesday 4/14/2010	Tad Olsonawski	6:45 AM	4:45PM	3	101	TarGOST Logging.
TOTALS				6	226	

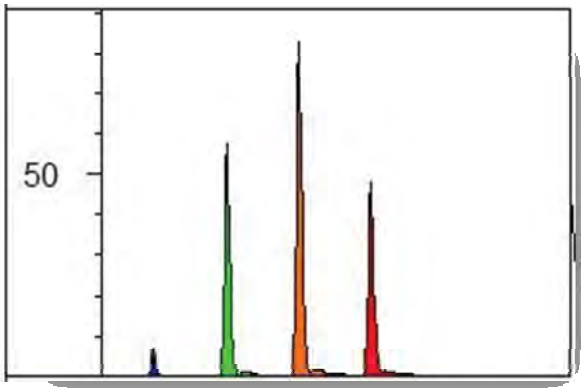
Pre-Project Product Screening

Before the field boring event commenced, some product was recovered from a monitoring well and a sample of the product was placed onto the sapphire windowed TarGOST probe. The log below was generated from this product. The material was thin and runny, making complete coverage of the SPOC window difficult, but the product responded very favorably to TarGOST® and yielding a relatively high response.



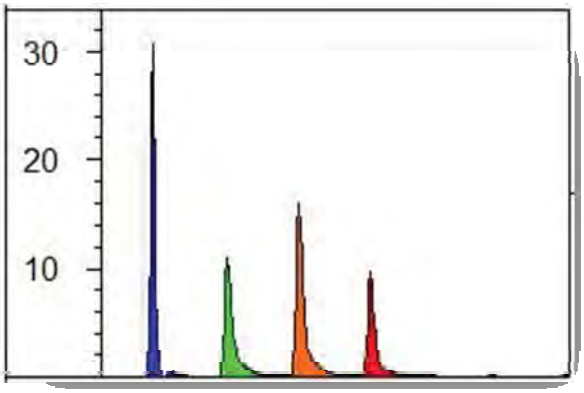
Product Signal and Log Interpretation

Due to the highly fluorescent soil, shell fragments, and organic material in the soil, there was an abundance of response to the TarGOST® that was not due to the target product. The waveform of the target product, placed directly on the SPOC window, is shown here. The peaks are narrow, the lifetime of the signals are short, and note the pattern of the peaks. [Ignore the blue channel here, as it does not play a major role in product identification]



Product Waveform

The waveform from a potential interference area is shown also. You can see the difference in the waveform by its differing width of the peaks or "lifetime" for each channel.

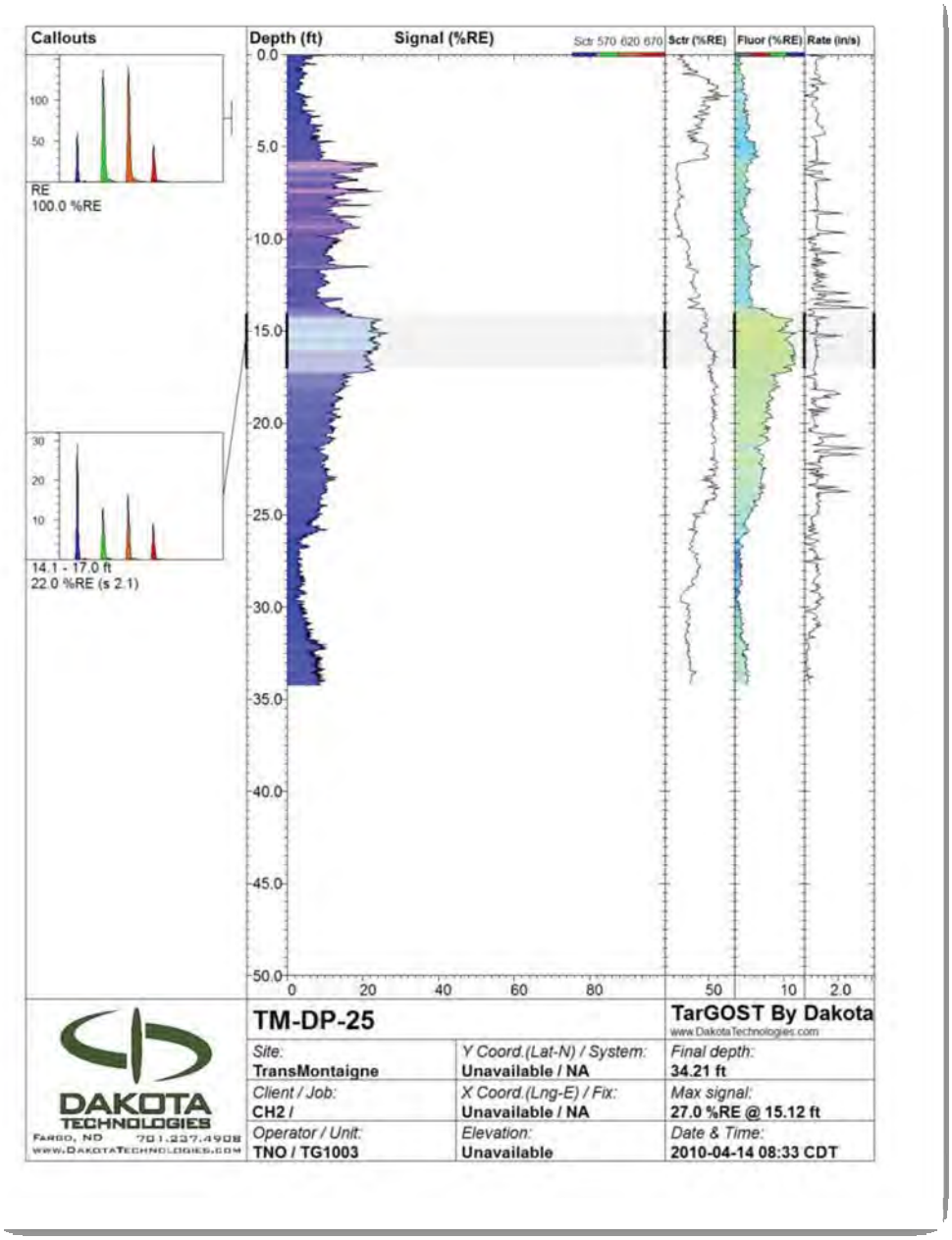


Potential Interference Waveform

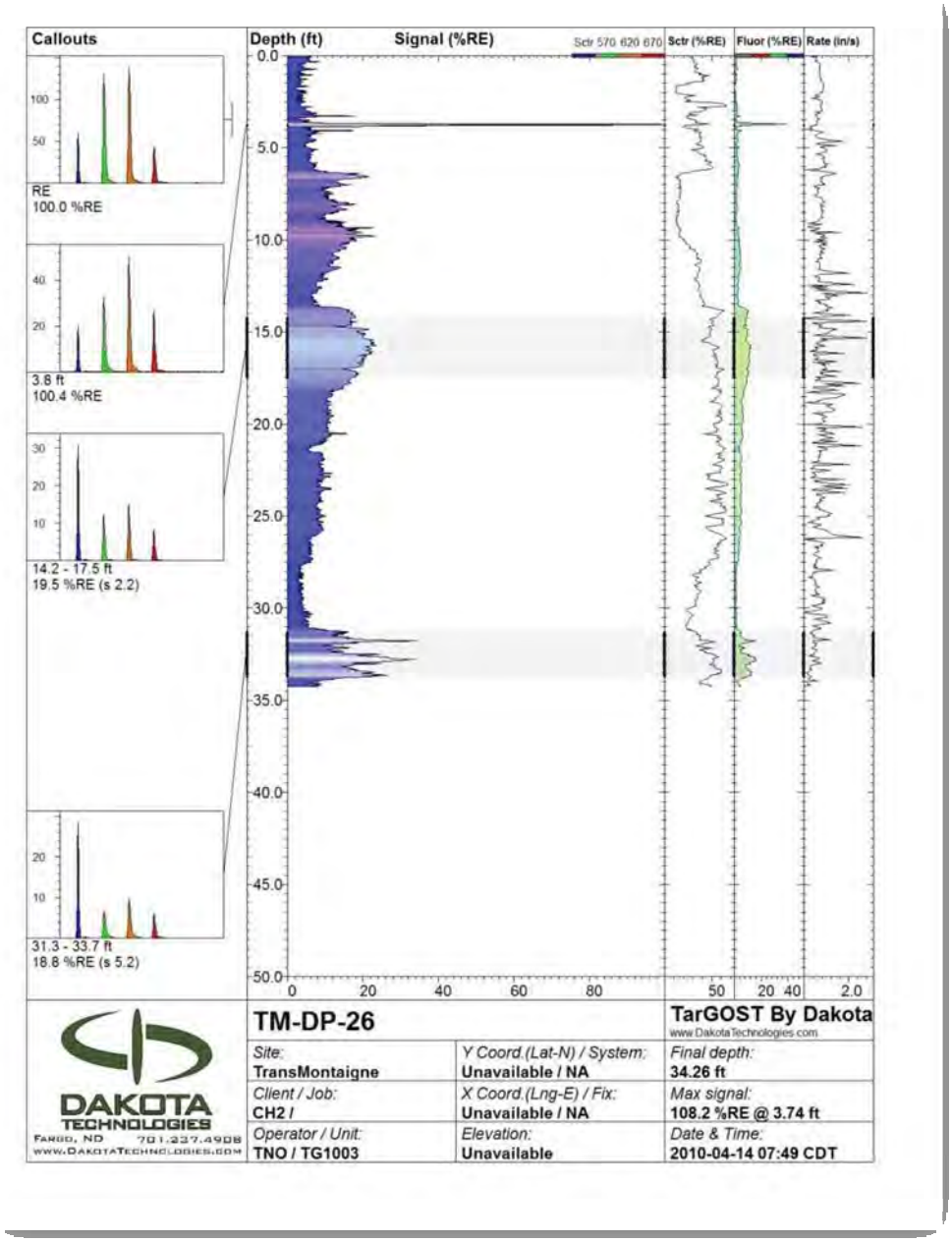
There is a significant amount of variation between the waveform from the product that was placed on the window and the responses received from the down-hole soils. Analyzing the logs, there are zones of elevated fluorescence that appear to have a high potential to be the target material and others that cannot be determined without soil coring and sampling.

Comparing the TarGOST® logs with the field notes for the soil confirmation cores that were taken from the site, it appears that signals lower than 60% will need to be verified with conventional sampling to determine if it came from the target source product, an unidentified organic material, or some form of NAPL that we are not able to see readily with the TarGOST®.

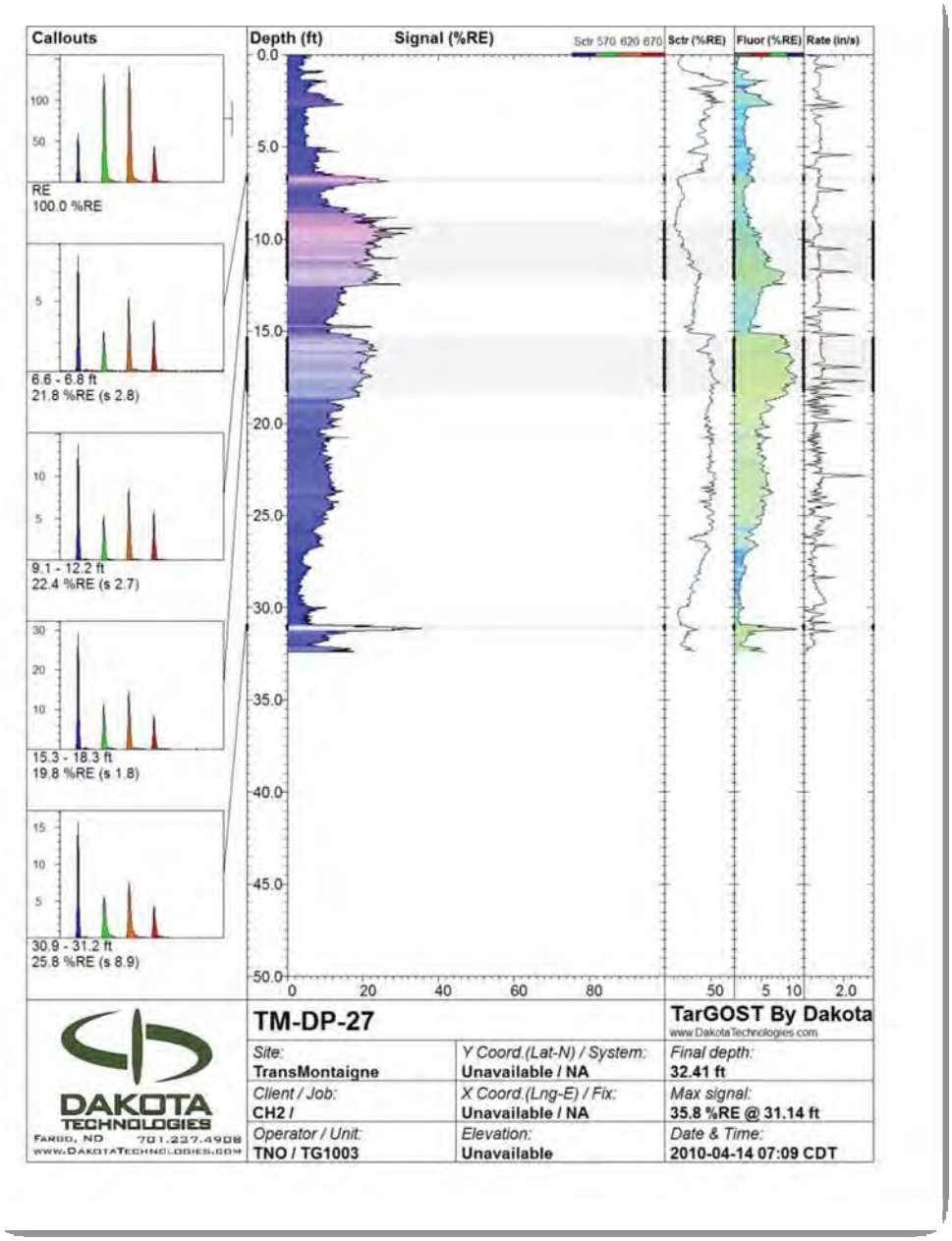
Soil cores were taken from the various locations that were 'suspicious' and samples were taken for analysis. The field notes taken from the confirmation sampling event were referenced in the log analysis. Taking into account that there can be quite a variation in soil only feet apart, and the material recovered in a soil core is not always from the exact location that was targeted due to partial recovery in cores, it is still a very good practice to help in verification of any suspect zones that need more investigation.



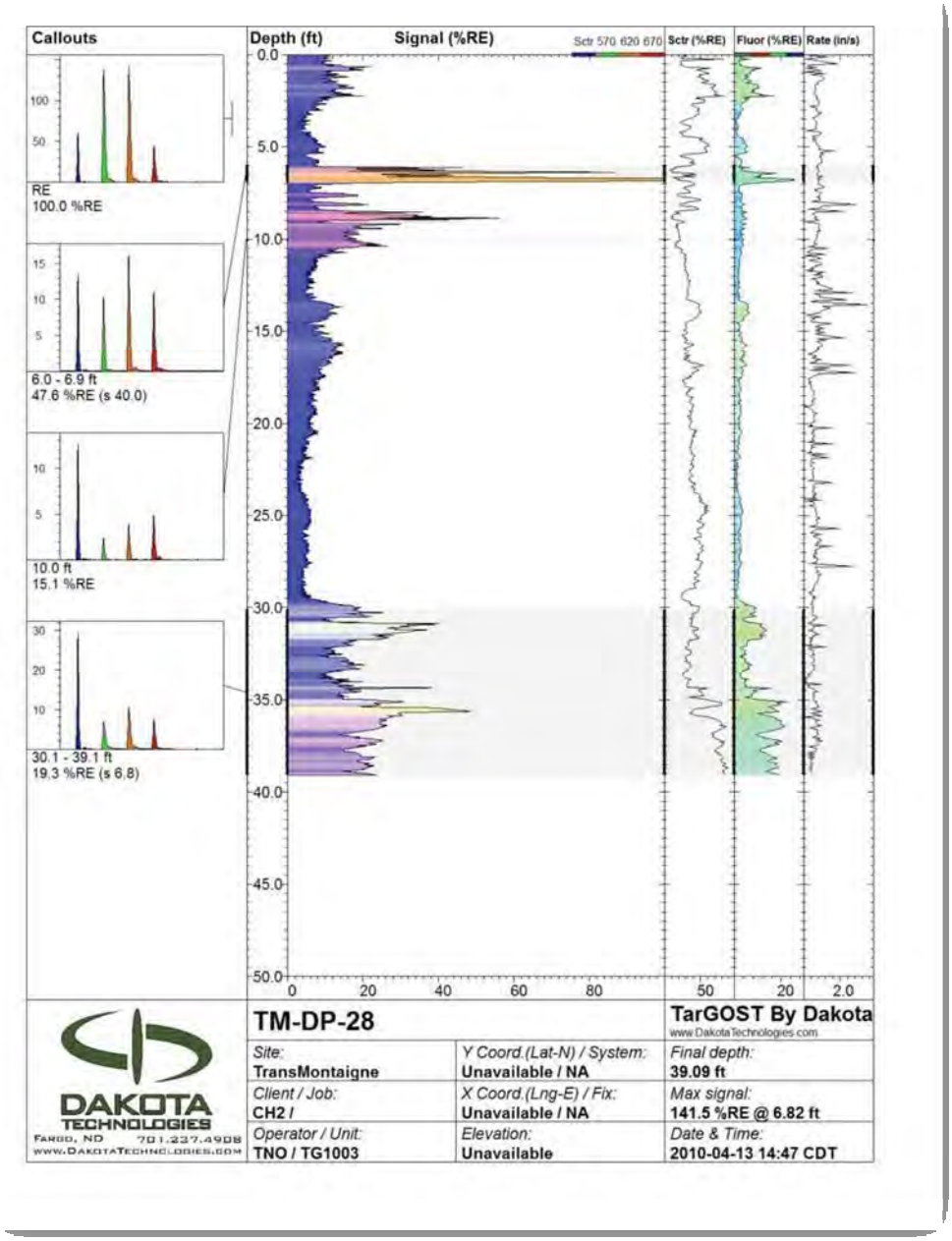
Log TM-DP-25 has two different areas of fluorescence. The zone from surface to approximately 14 feet that appears as a purple color in the main plot and light blue in the fluorescence only channel is consistent with highly organic material and wood chips that are found throughout the site. The area from 14 feet to about 17 has a light lavender response in the main plot and more of a yellow/green color in the fluorescence plot. This response appears, to some degree, in most of the plots and seemed to be some type of naturally fluorescing (highly organic) soil. This response is not consistent with the target product, but lab test and soil sample would have to be taken to verify our theory about this zone.



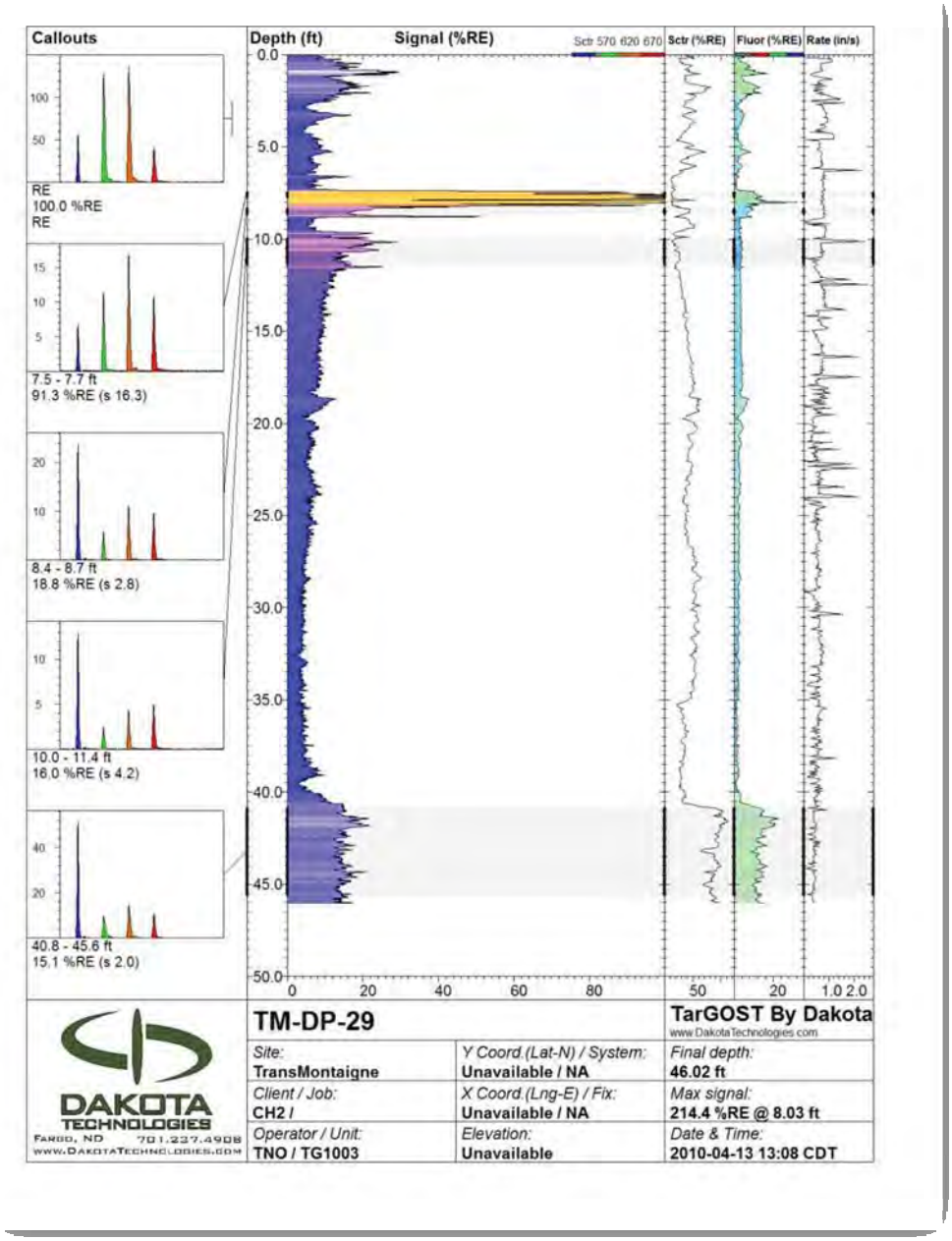
Log TM-DP-26 has three different areas of fluorescence. The zone from surface to approximately 14 feet that appears as a purple color in the main plot and light blue in the fluorescence only channel is consistent with highly organic material and wood chips that are found throughout the site. The area from 14 feet to about 17 has a light purple response in the main plot and more of a yellow/green color in the fluorescence plot, which happens again from 31 to 34 feet. These areas area's responses are consistent with naturally fluorescing material in the soil and organic material. There was a very thin response at 3.8 feet matched the waveform of the sample material tested before the soil boring commenced. This was verified with a confirmation soil and there were indeed black splotches and a petroleum odor.



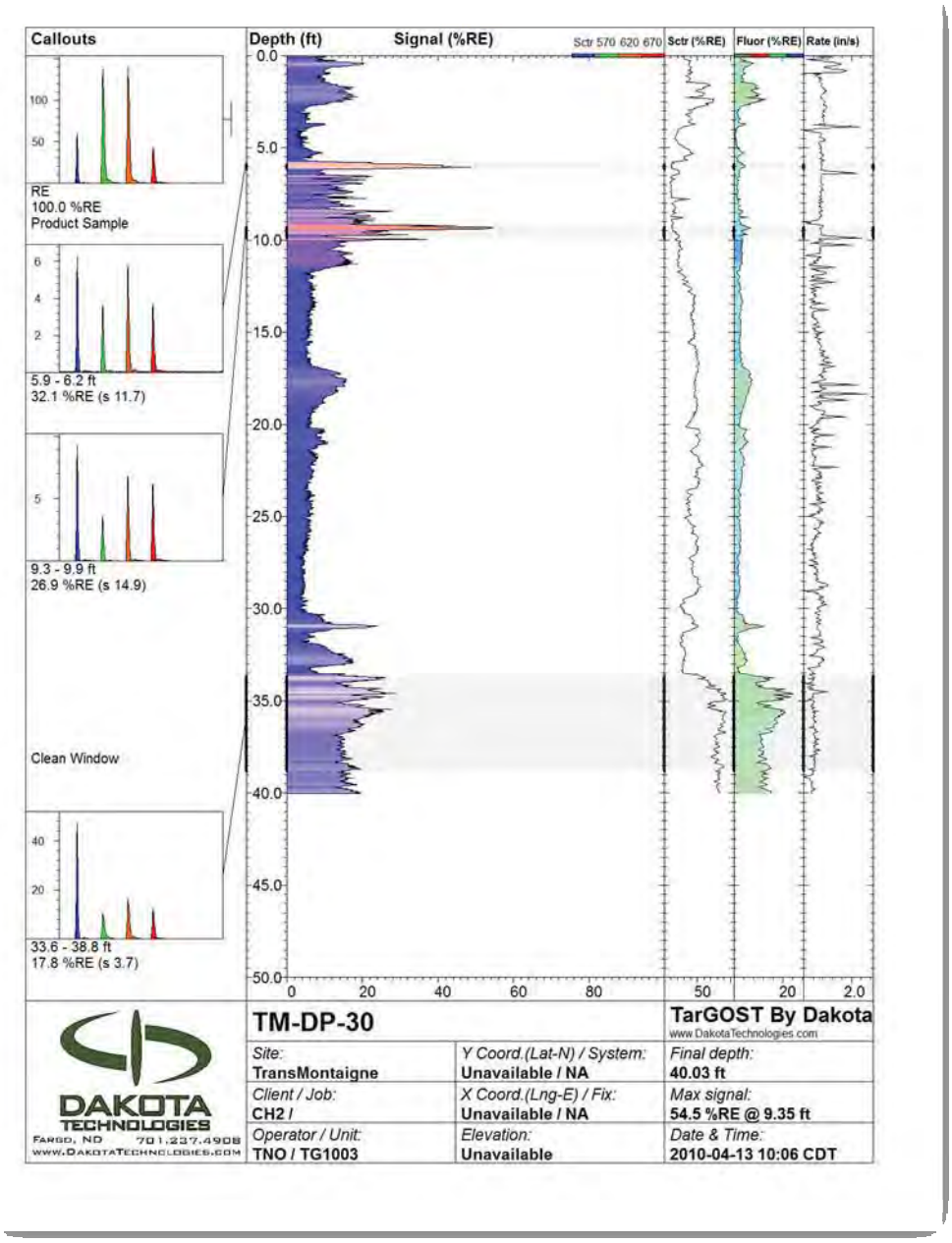
Log TM-DP-27 has three different areas of fluorescence. Referencing log TM-DP-26, they match up very similar with the exception of the product response we saw in 26. This strengthens the correlation that the slightly elevated fluorescence is due to a material in the soil layers other than our target product.



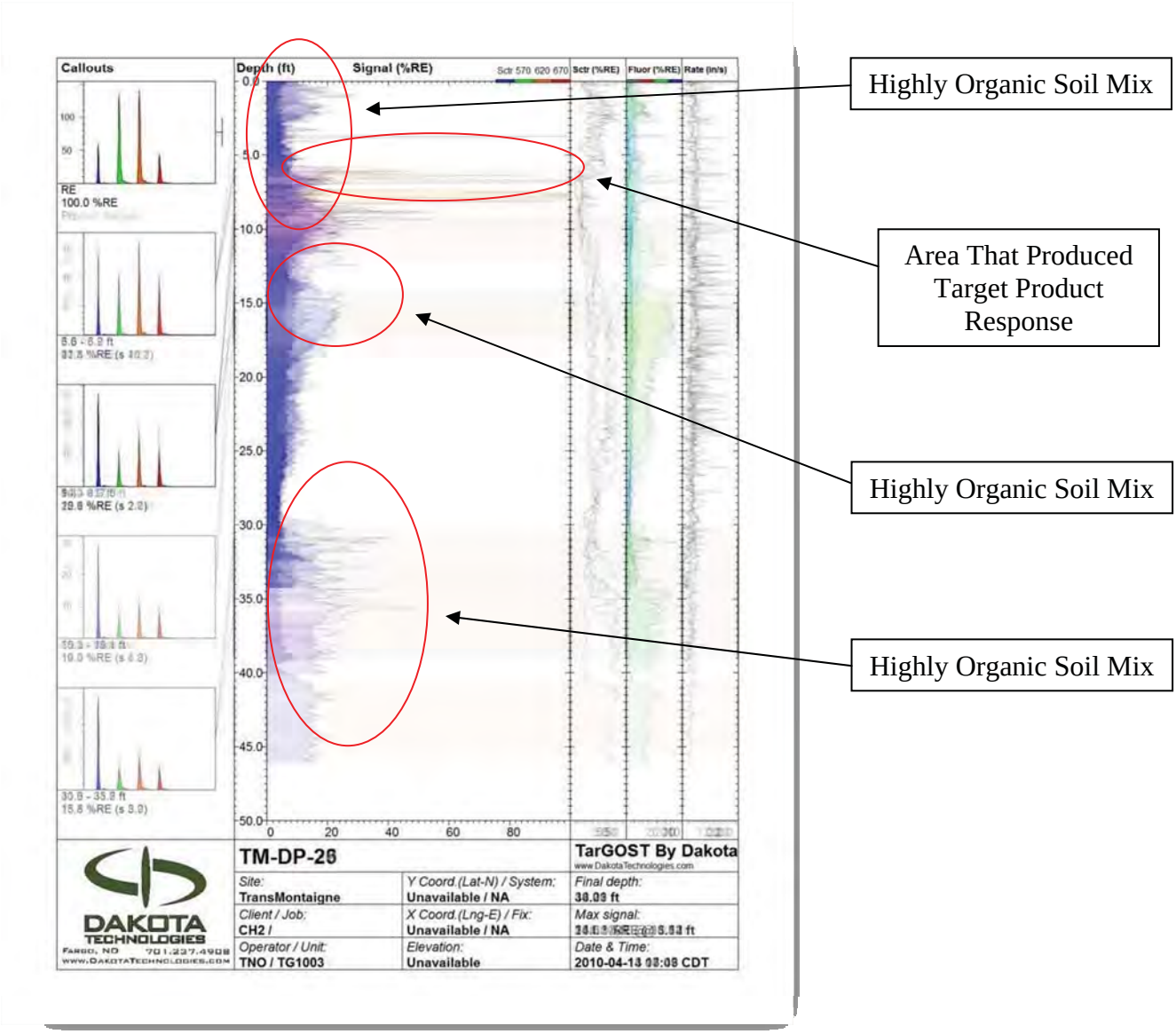
Log TM-DP-28 has three different areas of fluorescence. Again there is the purple elevated signal to about 11 feet, but there is an area from 6 to 7 that has a high response and a waveform that matches the target compound. In this log, that zone would be the area that has a high degree of certainty that the target product is present. This is also verified by the confirmation soil sample with a petroleum odor. There was not a lot of product documented to be present in the soil sample, but due to the nature of soil sampling and the ability of TarGOST® to see very small seams and globs that can be missed or unrecovered during sampling, there is a high likelihood that the product was present at this exact borehole location.



Log TM-DP-29 shows a very good correlation with log 28. The same product signature appears at the 7.5 foot interval that did at the 6.5 interval on log 28, and the purple signature in the upper layers are present as well. Our purple/pink response in the bottom of the log started at a lower level than before, but because of the refusal depth also being deeper, a depression of the material that was giving us refusal site wide could have been present in this location.



Log TM-DP-30 has very good correlation with log 28 and 29. Elevated signals are present in the upper zone, one at 6 feet and another at 9, which were suspicious. The TarGOST® response appears to be more organic, but because of the surrounding response and its magnitude, a soil core was taken and there was indeed some staining and odor noted in these locations. The signal was not as high in this location as the others where product was present, but due to the soil matrix in this location, some of the response could have been muted.



Viewing this overlay of the logs taken at this site, most of the product responses and suspected false positives responses were fairly consistent across the site. There are many areas of elevated signal, common to other jobs that we have done in the close vicinity, that were later verified to be organic material, sea shell fragments, limestone, etc… that naturally fluoresces. These responses were observed and analyzed as thoroughly as possible with soil confirmation samples taken to verify what the TarGOST® system showed. CH2M Hill and Probe Domain collected discrete samples at the locations that potential product signals were observed and layers where "signals of interest" were seen. These were taken to verify presence of product or the potential for other material that yield a fluorescence signal. There is fairly good correlation between what the TarGOST® system saw and what these confirmation samples produced. This particular site had numerous false positives to deal with, as opposed to none or one false positive at most other sites

Appendix A

TarGOST® User's Guide

The Tar-specific Green Optical Screening Tool (TarGOST®) is a laser-induced fluorescence (LIF) screening tool that is specifically designed to detect non-aqueous phase liquid (NAPL) in the subsurface. It responds almost exclusively to the NAPL found at former manufactured gas plants (MGPs) and creosote/pentachlorophenol sites. It does this by sensing the fluorescence of polycyclic aromatic hydrocarbons (PAHs) found in MGP and creosote NAPLs. TarGOST® is a modification of the Ultraviolet Optical Screening Tool (UVOST™). Dakota developed the UVOST early in the 1990's with U.S. Air Force funding. The UVOST platform is a mature technology that has been applied at hundreds of petroleum, oil, and lubricant (POL) contaminated sites in the U.S., Europe, and Japan since 1994. TarGOST® has been in commercial use since March 2003.

General TarGOST® Principles

The TarGOST® system is, in its simplest sense, a front-face fluorometer that is coupled via fiber optics to a sapphire-windowed probe that is shoved into the ground. A front-face fluorometer is a device that shines excitation light onto, and collects emission from, the same surface. This is different from standard fluorometers, which operate with the excitation and emission beams at 90°. The TarGOST® system makes continuous front-face fluorescence measurements of the soil matrix as the windowed probe is pushed slowly down into the subsurface.

The fluorescence measurements are made 20 to 50 times each second (20 to 50 Hz). Each individual measurement begins with a pulse of laser excitation light being launched into one of two fiber optic cables that are strung through the drill/push rod string. As the rod is advanced into the subsurface, the very fast pulses of laser light (10 nanoseconds in duration) are directed out the sapphire window and onto the soil surface that is pressed very firmly against the outside of the window. The pulses of green light strike whatever is present just outside the surface of the window. Most of the laser light is simply reflected by the soil matrix. However, if oil-like material (OLM) or tar-like material (TLM) associated with former MGP processes is present, the PAHs that exist in these NAPLs absorb some of the light and are driven into an electronically excited state. When these PAHs eventually return to the ground state (this typically takes less than 10 ns), a portion of the PAHs emit red-shifted light (longer wavelength light than the excitation laser). Some of this fluorescence, along with a small portion of the reflected excitation laser light, are collected by a mirror and focused into the second collection fiber optic for return to the TarGOST® instrument for detection.

The return light is directed into a spectrometer located inside the TarGOST® system. A grating in the spectrometer disperses this light into a "rainbow" across the back plane of spectrometer. Four optical fibers are located in this backplane. One of the fibers collects a small portion of the relatively intense laser light (more about this laser scatter channel later) while the other three fibers capture bands of the fluorescence (~10nm wide) emitted by any PAHs present in the NAPL. The four fibers are different lengths so that each fiber delivers its 'packet' of fluorescence photons to the photomultiplier tube (PMT) at delayed time intervals. The result is a "train" of time delayed photon packets all arriving at the same PMT over a period of 300 nano-

seconds (ns). The PMT is a device that converts photons into a current pulse. This current pulse is wired into a fast digital storage oscilloscope where it is converted into a transient voltage signal, is digitized, and recorded. This digitized transient is called a waveform. The laser light that is being reflected from the soil matrix is monitored in the first channel (left-most) and the three fluorescence bands are observed in the three right-most channels.

Figure 1 illustrates waveforms that are typical of those generated with TarGOST®. If the soil is clean of NAPL, the laser scatter channel (leftmost) is far more intense than the three fluorescence channels. The Clean Sand waveform in Figure 1 illustrates what clean (or very low NAPL) soil typically looks like on the TarGOST® system. If NAPL is present, the fluorescence channels begin to grow in comparison to the laser channel. The 1000 ppm waveform in Figure 1 illustrates such a condition. The more coal tar present, the lower the scatter channel gets and the higher the three fluorescence channels get. Finally, with pure NAPL on the window, the greatest increase in the fluorescence channels is observed, along with maximum loss of signal in the laser reflectance channel – due to absorbance by the PAH-laden NAPL. The NAPL waveform in Figure 1 illustrates the waveform resulting from such a condition.

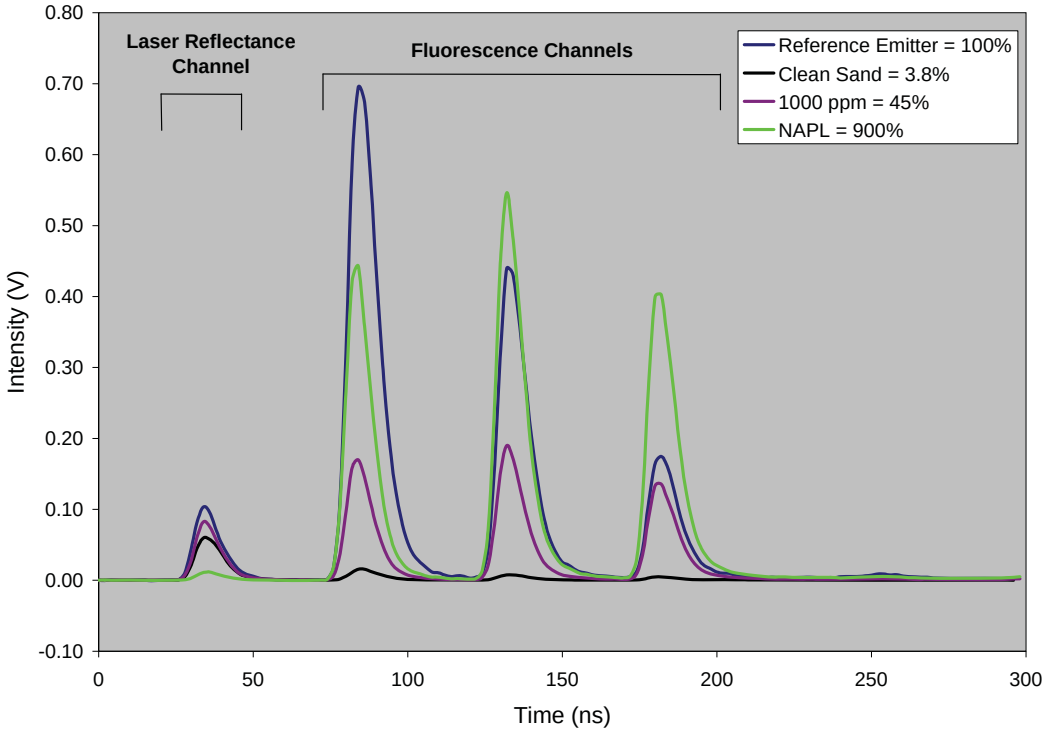


Figure 1. Example TarGOST® waveforms

Calibration/Normalization

The waveform shapes (the relative amount of signal in each channel and the decay time on the right side of each peak) tell us quite a bit about the qualitative nature of what's happening outside the window. But what interests people most is the **amount** of NAPL that is present vs. depth. We do this by portraying the fluorescence vs. depth (FVD) in a continuous log format. To accomplish this we must reduce the 2-D waveform to a single quantitative number. We also need to normalize for any energy drift of the laser and optical alignment changes, so it is necessary to calibrate the system prior to each sounding and plot the downhole data relative to a known fluorescence emitting reference (RE) material. The RE is a stable and known material that can be applied to the window and measured just prior to each sounding. The fluorescence of the downhole data, relative to this RE, is then plotted as a function of depth.

Figure 2 graphically illustrates the calibration procedure. The RE both reflects some of the laser light and fluoresces at levels that are in the same general range as soils that are moderately to heavily contaminated with MGP NAPL. The Reference Emitter waveform shown in Figure 1 is an actual RE waveform taken with the TarGOST®. Notice that the RE fluoresces in the same general intensity range as the pure NAPL, but it also (by design) reflects a high degree of scatter due to its buff gray color and lack of photon absorbing PAHs. The RE is designed to do this so that both the system's fluorescence and scatter components can be properly gauged and recorded on the same scaling of the oscilloscope. Once the RE is measured, all subsequent downhole (or laboratory) measurements can be normalized by this RE waveform, providing an apples-to-apples presentation of the data regardless of laser energy drift or other changes that would cause a difference in raw signal amplitude over time. It is useful to think of the RE waveform as the equivalent of the single-point 100ppm isobutylene calibration used for hand-held photo-ionization detectors.

To calculate the %RE, the area under the three fluorescence channels of the waveform is determined. The fluorescence area is then divided by the area under the laser scatter channel. This is called scatter correction. This is necessary because at very high concentrations the fluorescence does not continue to scale with concentration. This is due to complicated processes such as energy transfer, photon cycling, and other phenomenon that "quench" the fluorescence in high NAPL concentration soils. The uncorrected TLM curve in Figure 3 illustrates the problem. The addition of more and more NAPL to a soil sample should result in increasing fluorescence, but for some reason it only increase up to a certain point, at which the fluorescence response flattens out, or even worse, begins to fall. This poor type of response is called non-monotonic behavior and is obviously undesirable behavior for a screening tool. The laser scatter correction system is designed to prevent this "roll-over" affect. The scatter correction keeps this from occurring at the high end of concentrations (where soil is heavily contaminated or even saturated with NAPL). The scatter-corrected curves in Figure 3 illustrate the desired effect of scatter correction.

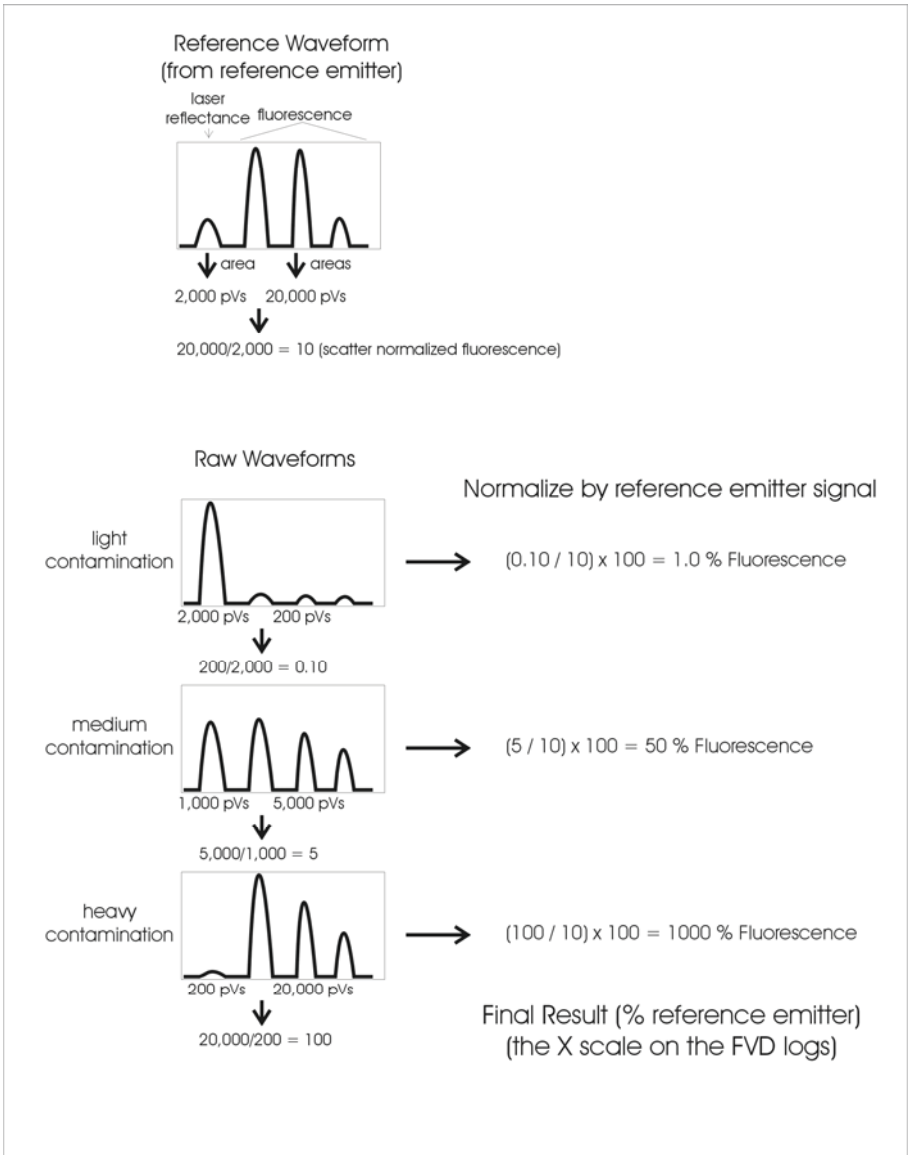


Figure 2. Single point RE calibration made prior to each TarGOST® log

The laser scatter intensity is relatively unaffected until NAPL concentrations reach the tens or hundreds of thousands PPM level, where the quenching (non-linearity of fluorescence response) is most pronounced. Laser scatter correction generally doesn't "kick in" until high concentrations are being measured, where fluorescence response flattens out or rolls over. In this way, the scatter corrected fluorescence readings scale relatively well across a wide range of concentrations, from the typical limit of detection (LOD) of 250-500 ppm, to the almost neat NAPL encountered in soil saturated with free product. Remember that TarGOST® is designed to respond only to the NAPL impacted soils, not the PAHs attached in "dry" form to soot or dissolved phase PAHs. This makes it ideal for delineating source term areas of mobile MGP NAPL.

The scatter correction works well, but it isn't perfect. The TarGOST® system is not an analytical instrument like a laboratory GC that sits in a clean, stable environment and only gets fed ultra-

clean matrix-isolated analytes. Instead, it is asked to respond faithfully to an analyte that exists in a thousand different forms in an endless number of different environments. Variation in optical design (CPT vs. Geoprobe), mirror angle, and spectrometer settings can vary the amount of scatter present, especially at very high NAPL concentrations when the scatter is getting weak and difficult to measure relative to the much more intense fluorescence.

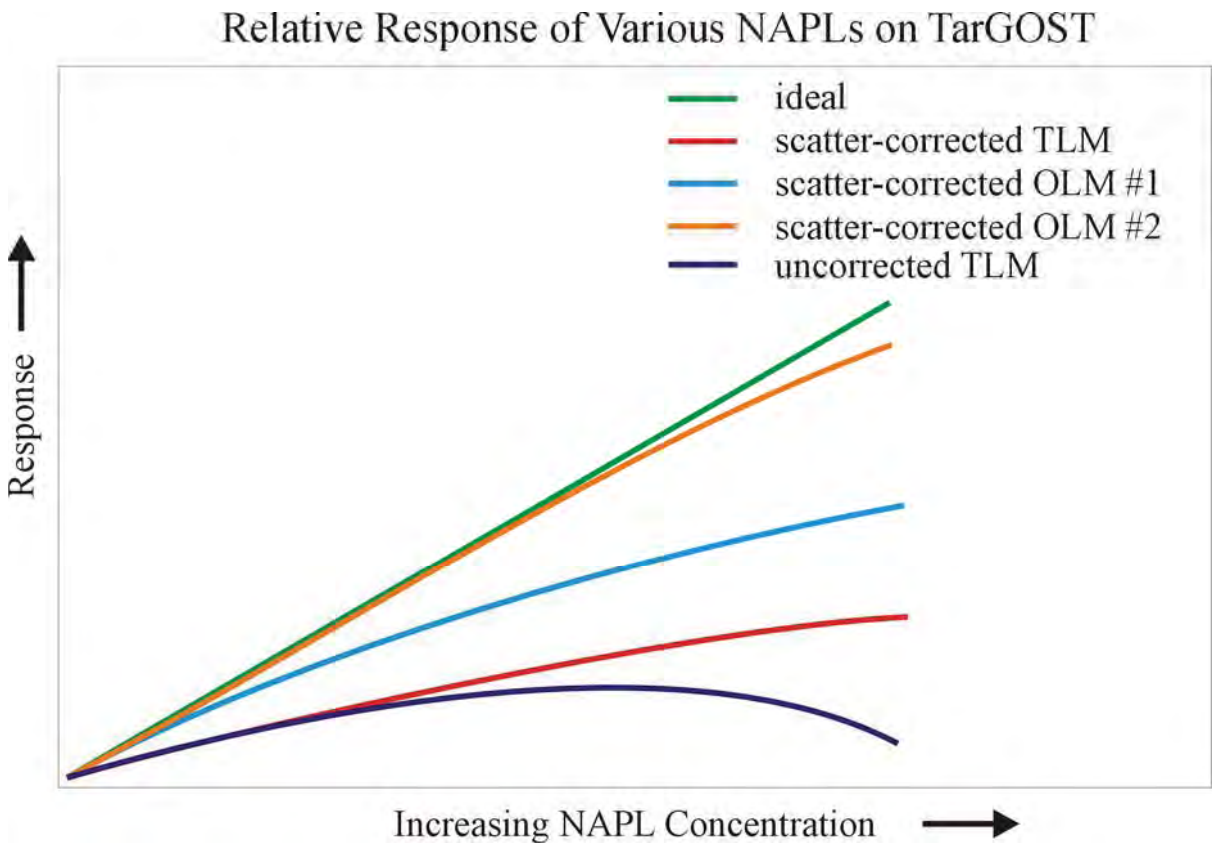


Figure 3. Variability of TarGOST® response to NAPL products

At high NAPL concentrations, even small variations in the laser scatter greatly influences the %RE number, especially when the laser scatter gets close to zero. For instance, let's imagine that with neat NAPL in front of the window, the fluorescence channels are averaging around 10,000 pico-Volt seconds (pVs) in area with each pulse of the laser. The laser scatter may be dancing around 400 and 800 pVs, because the scattered light is dim from being absorbed so highly by the PAHs. Now, even if the fluorescence stays almost exactly at 10,000 pVs every measurement, the relatively large variation in the tiny laser scatter that occurs will create a two or three-fold increase/decrease in %RE, even with the same NAPL sitting dead still on the window. That's why very high readings (500-1500%) often look unstable and jagged – because the laser scatter signal is so weak it "jitters" a lot compared to the fluorescence, causing large variations in %RE, even though the fluorescence portion of the waveform is relatively stable. For this reason, any wide swings in signals over 500% should "be taken with a grain of salt".

The TarGOST® operators do their best to adjust the amount of launched laser light, the spectrometer position, and mirror angle in the probe to achieve a consistent waveform for the RE at each job site and strives to maintain the same optical arrangement and a consistent RE signal for the entire project. Even though there are small differences in the setup from location to location, the variations in NAPL viscosity, soil matrix, and signal magnitude can swing the signal up or down by a factor of two or three, which dwarfs the calibration differences.

The limitations in the current calibration technique can lead to the case of significant differences in the maximum signal generated by the same NAPL from one platform to another. For instance, even if the technician adjusts the system to achieve the exact same signal with RE on both a CPT and a Geoprobe platform, the same NAPL may yield 500% on one of the platforms and 1000% on the other. This is not typical but it can and does happen for reasons that aren't fully understood. Our goal is to stay consistent at a particular site so that the entire data set from that site can be viewed consistently. TarGOST® data is relatively consistent and semi-quantitative across all the data generated **at one site** and **for a particular NAPL product,** but significant cross-platform or lab-to-field variations can and have taken place. While this may alarm users, and we're not happy with it, it's not as serious as it seems. As an example, let us imagine a site that is contaminated with a single origin homogeneous NAPL product. With TarGOST®, 100% response does indeed represent approximately twice as much NAPL as a 50% response at that site. Even if the laser energy or optics alignments change, the RE will do a reasonable job of normalizing the log-to-log data variation for that site. Dakota is currently working on an improved system that will better normalize across all systems/platforms regardless of design or conditions.

Lab studies with MGP NAPL on moist Fisher® sea sand consistently demonstrate that TarGOST® is capable of linear response vs. NAPL concentration, but some NAPLS are better behaved than others. Figure 4 is one example of the TarGOST® response vs. MGP NAPL concentration on sand.

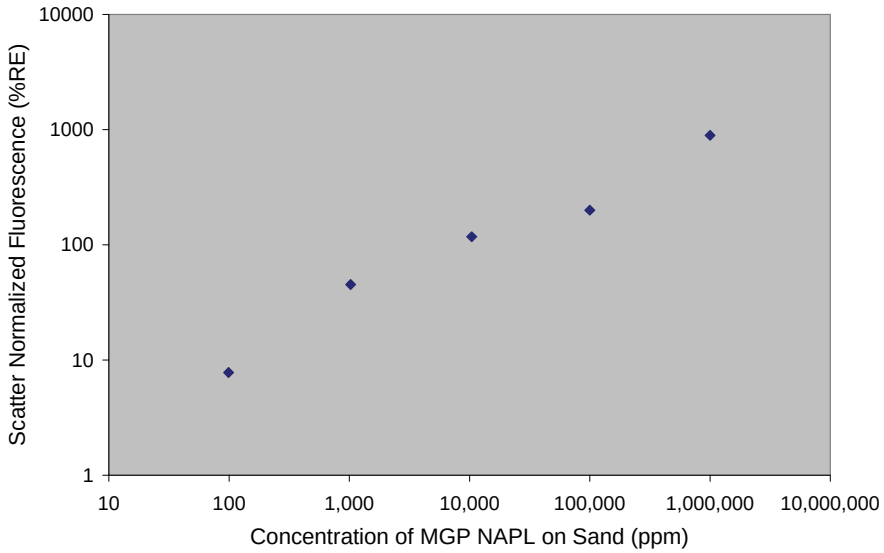


Figure 4. Calibration curve for MGP NAPL on Fisher Sea Sand

NAPLs do vary in their ability to fluoresce, even NAPLs found at the same site. Figure 3 illustrates conceptually that TarGOST® often responds with varying sensitivity (ΔTarGOST® Signal/ΔNAPL Concentration) toward different NAPLs, depending on their origin and/or variances in the conditions under which they've been exposed in the decades they've spent in the subsurface. For instance, a more ashaltine TLM will typically fluoresce much less intensely than a runny, less viscous OLM. This may well be due to the relative abundance of solvent in one matrix vs. the other. The more solvent available (i.e. the less viscous the NAPL), the higher the likelihood of the PAHs being able to emit photons (fluoresce) before a non-radiative mechanism allows the PAH to come back down to the ground state without emitting a photon (quenching).

The preferential sensitivity of TarGOST® toward the runnier (more mobile) OLMs is welcomed by most users, since TarGOST® seems to accentuate the presence of the more mobile NAPLs. It is these more mobile NAPLs that are of the highest regulatory/compliance concern. There is an abundance of anecdotal evidence that suggests that some NAPLs may fractionate in the subsurface into OLM and TLM or even DNAPL and LNAPL. Dakota has participated in a number of investigations where a single NAPL body seems to have 'split' into two distinct NAPLS, with both NAPLs having similar but distinct waveform shapes as we moved away from the suspected release point and they appear to form two separate horizons (a "high" and "low" layer). Although there has been plenty of speculation, the exact mechanism for this phenomenon (if it actually occurs) is not known.

As previously described, TarGOST® uses a green laser to excite the larger (4 -5 rings and higher) PAHs that exist almost exclusively in NAPL form, as opposed to smaller (2-3 ring) PAHs that can more readily partition into the groundwater due to their much higher solubilities in water. UVOST on the other hand employs ultra-violet (UV) light which can and does excite the smaller 2-3 ring aqueous phase PAHs and therefore detects dissolved phase PAHs such as naphthalenes in the groundwater. When this behavior is combined with UVOST's non-monotonic response for many NAPLs, extremely complicated logs are generated that need to be computer analyzed to separate the NAPL fluorescence contribution from that of the dissolved phase. The dissolved phase signals can even surpass NAPL signals, making confident NAPL delineation almost impossible at many sites. This is especially true for those sites with sand/gravel, where pockets of NAPL are perched in or amongst slow-moving or stagnant groundwater.

It should also be mentioned that TarGOST® was designed to exclusively detect heavy PAH NAPLs. It has, by design, a very limited, if any, response to lighter POLs. For instance, fresh diesel applied to the window will not elicit even a small response from the TarGOST®. However, if the diesel has co-mingled with coal tar, the mixture will fluoresce brightly and TarGOST® will respond well.

To better appreciate the qualitative information that TarGOST® provides the FVD logs are color-coded by "filling in" the FVD's x-axis (%RE) with colors generated from the waveform at each and every depth. The color is determined by "mixing" the amount of red, green, and blue (RGB) channels and applying the resulting color to the area under the curve on the FVD. This makes the interpretation of the logs easier to see "at-a-glance" as opposed to relying solely on the few selected waveforms to understand the qualitative nature of the data vs. depth. Color-coding alerts the observer to shifts in NAPL types and can also help identify weak interfering

compounds like calcium rich (crushed limestone) soils and rotting wood/vegetation, both of which can sometimes (rarely) be mistaken for MGP waste.

Figure 5 shows the resulting colors for differing amounts of signal in each channel of the waveforms. Clean soil shows up blue (nearly 100% laser scatter), low-to-medium contamination often shows up orange or maroon (mostly red with some blue and green), and highly contaminated soils or neat NAPL typically shows up yellow (nearly all red and green with very little blue makes yellow). The color is simply another way of representing the information contained in the associated waveforms (shown in sub-panels at right in the figure). Just think of the color-coding as mixing paints in amounts equal to that contained under each associated red, green, and blue channel of the waveform. The standard for TarGOST® is to use blue, red, and green in channels 1, 2, and 3 - leaving the fourth channel unused. The fourth channel was chosen to be the non-contributor to the color scheme because it varies the least in intensity across differing classes of NAPL.

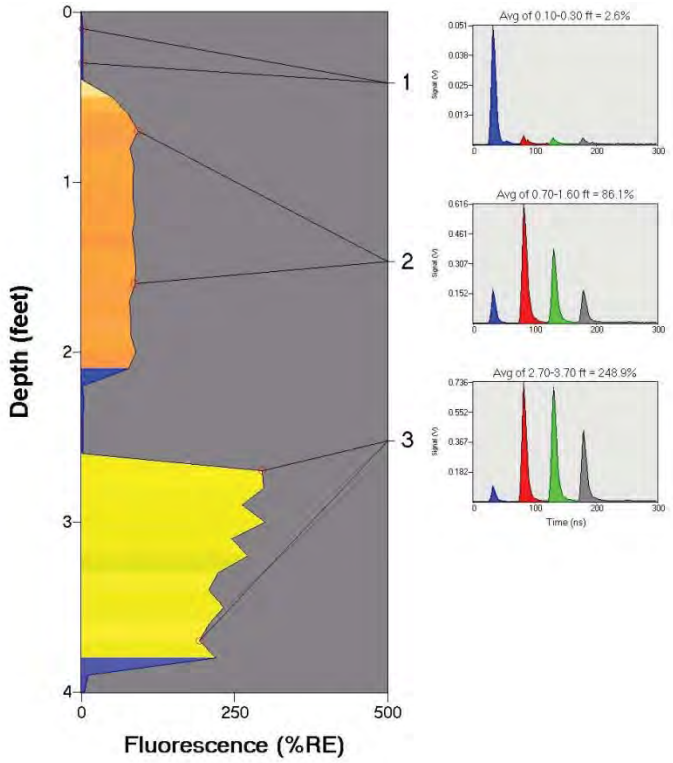


Figure 5. Example waveforms showing colors generated from RGB channel ratios

The list below summarizes some of what we've learned in this section.

- TarGOST® specifically targets the PAHs found in former MGP and creosote NAPLs
- TarGOST® does detect staining and residual levels of NAPL as well as free phase
- TarGOST® is "blind" to aqueous phase PAHs limiting its response to the source term
- TarGOST® is not able to reliably detect "dry" PAHs that are sorbed to soot, wood chips, and ash. They can generate a signal but it is often weak and not easily teased out of the background. Many times we're left wondering whether a small signal is caused by very

high concentrations of "dry" PAHs on purifier chips or ash/soot or very low (100s of ppm) residual NAPL levels.

- TarGOST®'s typical lab-determined LOD for NAPL on site soil (or Fisher sea sand) is 250-500 ppm (weight of NAPL/weight of soil matrix). Note that this is not the same as weight of Total PAHs /weight of soil matrix, since not all of a NPAL is PAHs
- TarGOST® has, on rare occasions, responded to mineral or plant interference enough to be a nuisance. One incident involved crushed limestone gravel fill while another involved buried rotting wood/brush debris (the result of major flooding on a gravelly river)
- TarGOST® has not been observed to significantly respond to peat material (but this does not guarantee it won't on some future occasion)
- TarGOST® does not respond to typical lighter end fuels like gasoline, kerosene, or diesel – unless they contain MGP waste or creosote that they are co-mingled with
- TarGOST® is single-point calibrated with a reference emitter (RE) immediately prior to each sounding and the results are always plotted relative to RE in percent
- TarGOST® calibration/setup isn't perfect and the response for an identical NAPL can vary with optical platform (CPT vs. Geoprobe®) and from lab to field. However, once set up on site, the response remains stable over time and from log-to-log.
- NAPLs can vary greatly in their fluorescence response – even those found on the same site.
- Thinner, less viscous NPALS typically fluoresce much more than the more viscous TLMs. Asphalt-like TLMS which are solid/plastic fluoresce very poorly.
- Scatter-correction is applied to TarGOST® data to reduce/eliminate "response rollover" at high concentrations
- Color-coding is deduced from the first 3 waveform channel areas and provides "at-a-glance" recognition of waveform consistency or changes
- The waveforms contain both quantitative and qualitative information

On-site TarGOST® Fundamentals

So now that we understand the fundamentals of how TarGOST® works, let's examine the logging procedure at the site. When the system first arrives on site, it is powered up and tested for proper function. If it is in Dakota's Geoprobe, the TarGOST® is simply powered up and we're ready to begin probing after proper warm-up. If CPT deployment is involved, the TarGOST® system is integrated into the CPT truck and proper data flow connections are made (about a 2 hour procedure). Once the system is warmed up and tested for proper function, the actual logging can begin.

The delivery platform (CPT, Geoprobe truck, or track-rig) is positioned over the flag/mark as directed by the controlling geologist/consultant. Clients typically start out in an area where NAPL is known to (or strongly believed to) exist. Pushing in "the heart" of the source term at the start gives everyone involved a feel for how well the NAPL is going to respond to TarGOST® delineation. From there, the effort often moves out and away from the "hot zone" toward the edges, with hopes of bounding the extent of the NAPL source term.

TarGOST® productivity can range anywhere from 200 to over 500 ft/day. If the pushes are fairly deep (>30 ft), and the obstructions or rubble are minimal, then the average is on the higher end because we spend a lot more time actually probing, not moving around from location to location and/or trying multiple times to get holes started through rubble. On jobs with lots of shallow holes and/or numerous subsurface obstructions, like brick/rubble from previous demolitions, the production obviously slows down. This is due to spending lots of time making attempts to "get a straight hole going" or from break-offs and the subsequent repair they entail. We typically can achieve between 10 and 20 locations a day, again depending on the site conditions.

Buried utility clearance is often an overlooked issue, until the first day of the project when everyone realizes we can't probe without it. Weeks or months of planning are often stalled the first day due to improper preparations with regard to utility clearance. The TarGOST® crew has been instructed NOT TO PROCEED if there is even a remote chance that the proper precautions have not been made to clear the location for underground utilities.

Once the location has been cleared for utilities, the RE material is put on the cleaned window, any necessary tweaks are made to the TarGOST®, and an RE waveform is acquired. The probe is then positioned in the push platform for advancement into the soil. In the case of percussion or "jack-hammering" delivery such as Dakota's Geoprobe, the window is approximately 8 inches above the tip of the probe. In the case of cone-penetrometer test (CPT) delivery, the window is approximately 16 inches above the tip of the probe. When using Geoprobe delivery, the log is initiated when the window is at the ground surface. In CPT delivery, the log is initialized when the CPT tip is in contact with the ground. In both cases, the software automatically corrects for the window position and all logs are depth correct.

A unique name for the current log location is entered into the control computer and logging is started (probe advance begins). As the probe is pushed into the ground (at ~2cm/sec) the laser fires continuously, generating waveform after waveform on the detection system oscilloscope as the probe advances. We don't store every waveform that the oscilloscope records. We instead average the waveforms over every 1-2 inches, depending on the probe speed and laser repetition rate. The averaged waveforms are downloaded from the oscilloscope every second or two by the control software. These waveforms are immediately 'tagged' with the current depth, which is constantly being sent to the TarGOST® system by depth monitoring systems built into the Geoprobe or CPT truck. All the averaged waveforms from the logging event are stored to the hard-drive for later viewing and presentation if necessary or desired. The scatter and fluorescence areas are calculated and these are normalized to the RE waveform's areas. The fluorescence response is plotted vs. depth in real time as the probe is advanced. Logging continues until "refusal" is met due to bedrock or very tight sands/gravels, or the client wishes to terminate.

The technician then uses the TarGOST® software to highlight the waveforms at "depths of interest" for display in the print out. The waveforms are located in panel plots at the right of the FVD log to guide the viewer's interpretation of the log. These waveforms contain the qualitative information and are often chosen from depths with peak signal, signal changes, or other zones of interest along the log's Y depth axis. The technician immediately prints a hard copy, which is usually printed out before the probe is completely retrieved from the subsurface. The technician

also saves an electronic image of the printed log in JPG format. At the end of the project the technician typically writes all the data and image logs to a CD, which is given to the lead geologist before departure.

Once the rods are all up and out of the hole, the hole is grouted (if necessary) and the probe tip and sapphire window is wiped clean in preparation for the next RE calibration. Time and money can often be saved by hiring a second crew/rig to grout the holes, instead of relying on the more expensive TarGOST® system to do an otherwise routine task such as grouting. The next location is chosen and the procedure is repeated. The site investigation is often started with a grid or transect in mind, but it is common for the controlling geologist to modify the initially proposed investigation plan due to unforeseen "dirty" or "clean" zones encountered during the project. It is actually rare for the original transect or grid pattern to remain unchanged during the entire investigation, since the TarGOST® regularly reveals previously unknown conditions at the site, including NAPL-free areas where significant NAPL was expected.

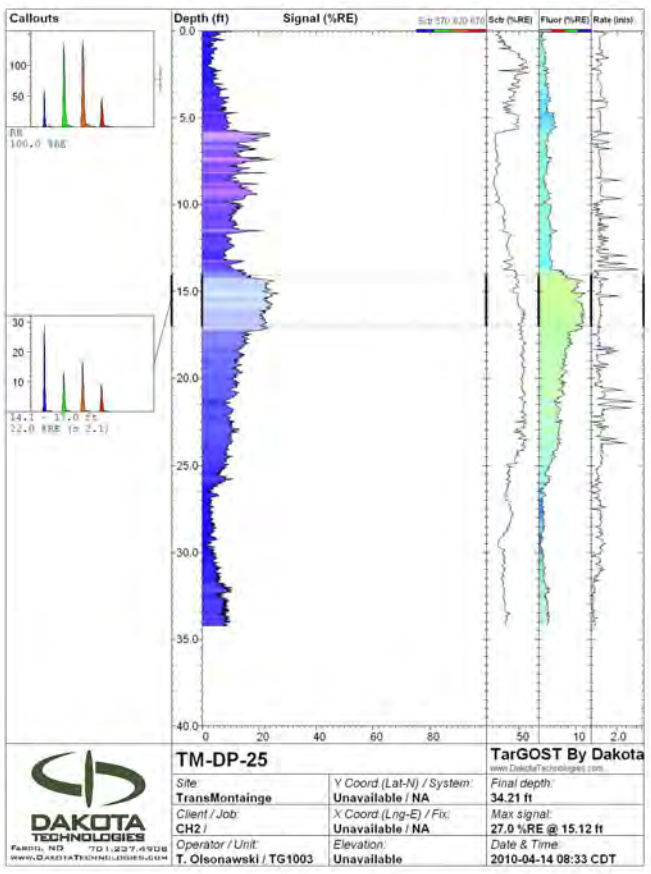
We recommend that the client conduct validation/confirmation sampling to bolster confidence in the body of evidence generated with TarGOST®. Validation sampling of 10% of the TarGOST® locations seems to be the most common co-sampling effort. Once the client gets familiar with TarGOST® and becomes more comfortable with interpreting the results, they typically only sample where results are confusing or fly in the face of previous site understanding/information.

It is recommended that the client also conduct a few side-by-side tests of TarGOST® for site heterogeneity assessment. Some sites yield nearly identical TarGOST® logs when they are conducted a few feet apart because the NAPL is lying in well-behaved, homogeneously distributed layers. Other sites have extremely complex and heterogeneous NAPL distribution and yield side-by-side TarGOST® logs with significant differences. In these conditions it is certainly unfair to conduct co-sampling efforts for TarGOST® validation and expect TarGOST® to "match" the traditional sampling results. In this case, even though the NAPL is scattered here and there, the validation hole is considered to be "right" and the TarGOST® log, if not matching, is considered "wrong". In such heterogeneous environments even two side-by-side traditional sampling efforts might not come close to matching each other. So which one of the two traditional sampling locations is "right" and which one is "wrong" in this instance? Clearly neither is right or wrong, the site NAPL is simply heterogeneously distributed. Please keep this in mind when validation sampling against TarGOST® as well.

The list below summarizes key aspects of deploying TarGOST® at a former MGP or creosote site.

- TarGOST® production averages between 10 and 20 locations/day and 200-500 ft/day, depending to large degree on subsurface conditions and difficulty in positioning the push platform over the desired location
- Proper utility clearance is the most important step in assuring a timely start and to prevent delays
- Start pushing in the "heart" of the source term to get a feel for the responsiveness of the TarGOST® to your particular site's NAPL, then work your way out to find the edges and bound the source term NAPL

- Be prepared to adapt your transect and grid to ever-changing site model as TarGOST® logs are reviewed
- On large-scale projects, consider hiring a second crew to pre-probe and/or grout with a small Geoprobe® or drill rig if regulations/conditions warrant. While we don't mind doing the pre-probing or grouting ourselves, we want to spend the majority of our time doing what it is we're getting paid to do – delineate the site's NAPL
- Can TarGOST® tell the difference between residual and free phase NAPL? The answer is clearly "No". There is no exact concentration where all NAPLs make a magical transition from "heavy residual" to "saturated or free-phase". Likewise, there is no set %RE that we can cite as being representative of saturated or free phase NAPL, since the response is continuous with concentration. With that said, it is certainly possible to determine a certain cutoff or signal range that is representative of the residual to free-phase transition for your site. For instance, let's say that after examining all the TarGOST® logs and comparing them to previous efforts and the validation sampling, the geologist notes that free phase existed at depths/locations where the TarGOST® logs exceeded 50%. It's certainly reasonable then to make the assertion that the 50% RE level is a general cutoff for the absence/presence of free-phase. Just remember that the entire body of evidence for any particular site should be used to come up with your %RE number.

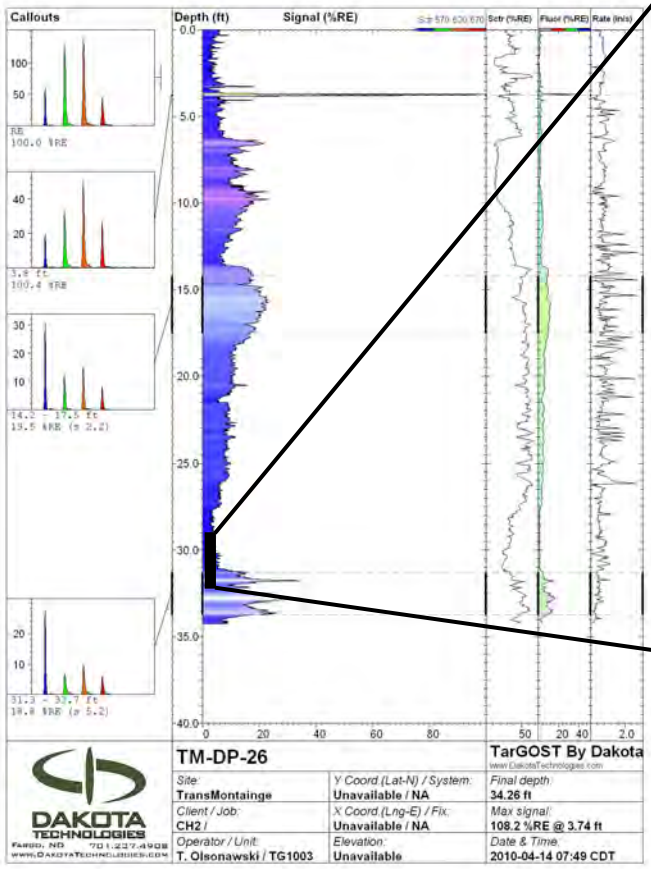




Core Interval: 43 to 48 ft bls

Core Description:
Limestone (grainstone) – light brownish gray (2.5Y 6/2), loose to moderately indurated, fine to medium grain, intergranular porosity, containing calcareous sand and clay deposits

Comments:
Unable to advance TarGOST logging probe below 34 ft bls. Geoprobe rods were slightly bent upon removal from borehole. Several attempts were made to advance probe below 34 ft but unsuccessful.



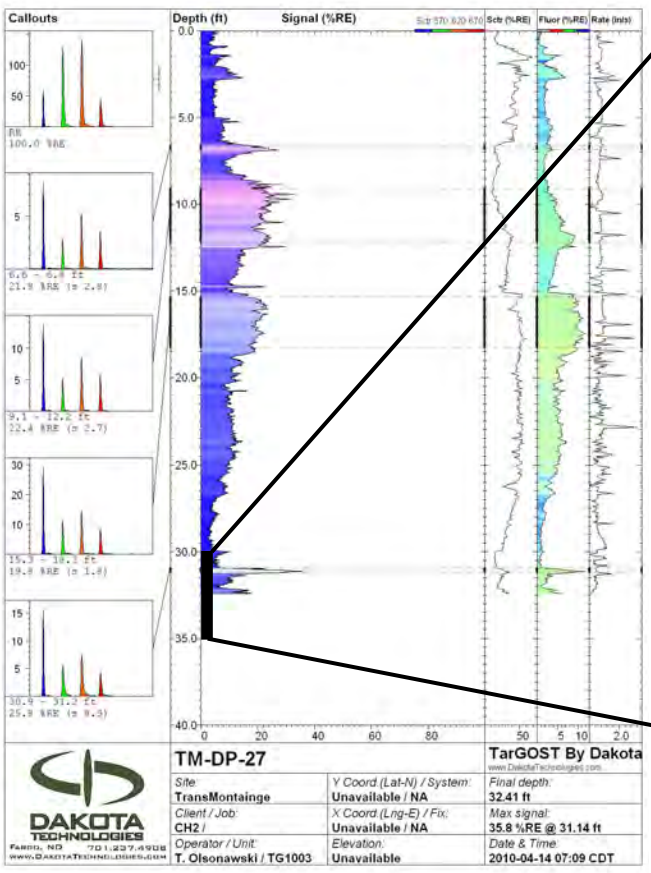


Core Interval: 29 to 32 ft bls

Core Description:
Sand and Gravel – grayish brown (2.5Y 5/2), fine to very coarse (from 29 to 30.5 ft bls)

Limestone (grainstone) - grayish brown (2.5Y 5/2), partially dolomitized, fine to medium crystals, low to moderate intergranular and vuggy porosity, weathered, loose to moderately consolidated (from 30.5 to 32 feet bls)

Comments: None

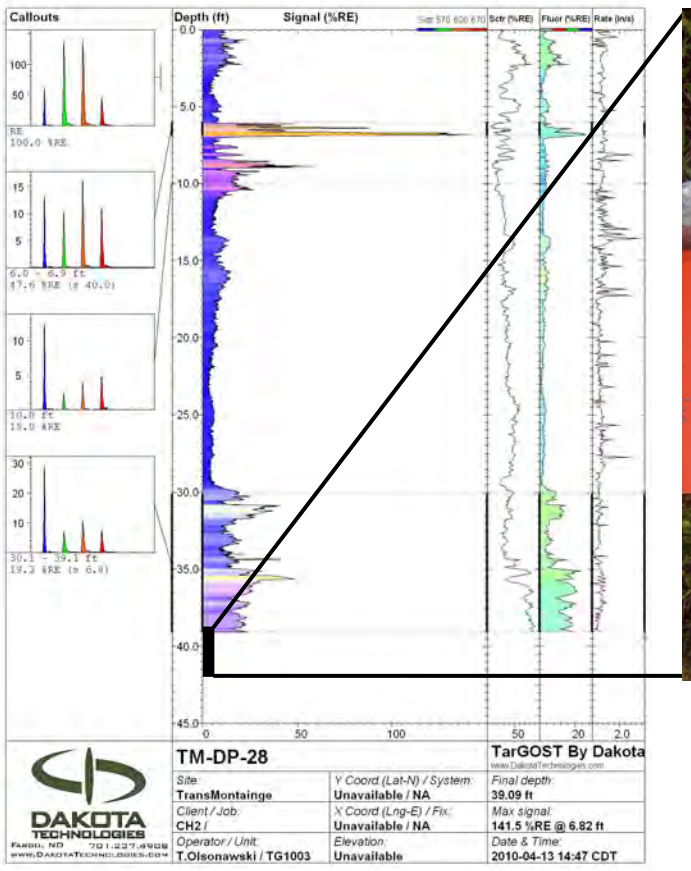




Core Interval: 30 to 35 ft bls

Core Description:
Calcareous sand, clay, and Limestone (Grainstone) - light gray, very loose, fine to medium, very low intergranular porosity, containing calcareous sand and clay deposits, fine to coarse grain.

Comments: None

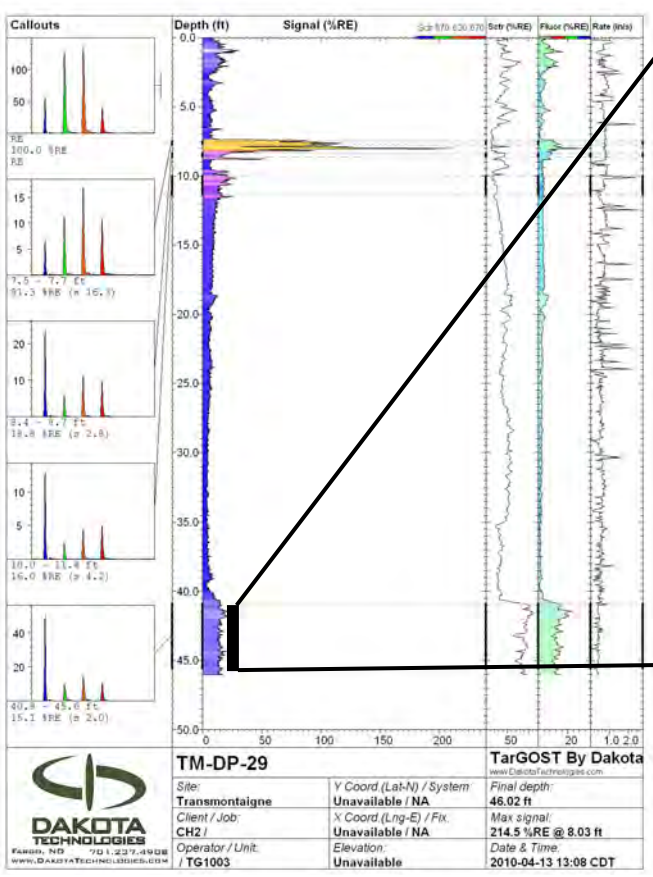




Core Interval: 39 to 42 ft bls

Core Description: LIMESTONE (Grainstone) and MARL – limestone, light gray, very loose to well indurated, some sections of core partially dolomitized, low to moderate intergranular and moldic porosity, marl, light gray, soft, fine, reacts with 10% HCl.

Comments: Unable to advance TarGOST logging probe below 39 ft bls.

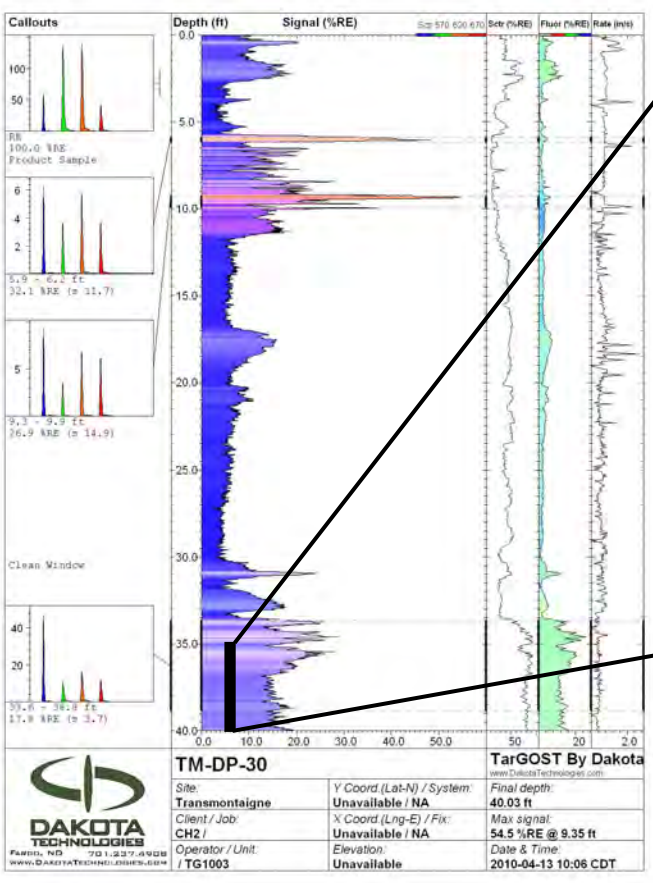




Core Interval: 41 to 46 ft bls

Core Description: LIMESTONE (Grainstone) – light gray, loose to well indurated, very fine to fine, low intergranular porosity, strong reaction with 10% HCl.

Comments: Encountered top of shallow limestone unit at a depth of approximately 41 feet below land surface as indicated by the probe. Minor odor noted by TarGOST pusher while retrieving probe from borehole.





Core Interval: 35 to 40 ft bls

Core Description: LIMESTONE (Grainstone) and MARL – light gray, very loose to moderately indurated, low intergranular porosity,

Comments: TarGOST response indicates that top of shallow limestone unit occurs at a depth of approximately 33 feet bls

Attachment 2
META Forensic Report
(See Enclosed CD)

Environmental Forensic Report





JEA – KGS
Off-Site Investigations
TransMontaigne Facility

SDG: CH100430

Report To:

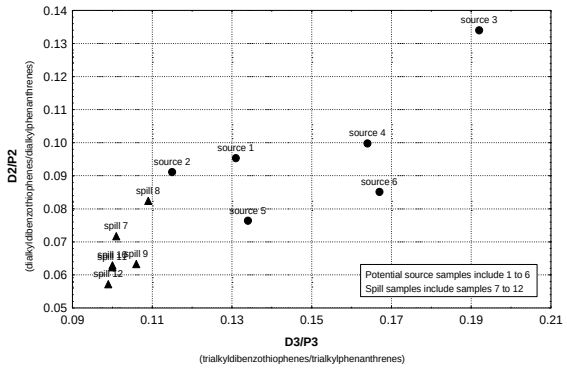
CH2M Hill
9428 Baymeadows Rd.
Suite 300
Jacksonville, FL 32256

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

June 4, 2010

Figure 1. Double Ratio Plot



Identifying and allocating sources of pollutants in complex environments.

META Environmental, Inc.
ENGINEERING & CHEMISTRY

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472
Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

New York Certification Number: 11886

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

James A. Roush — June 4, 2010
Environmental Scientist, Laboratory Manager

David M. Mauro — June 4, 2010
Senior Scientist, Quality Assurance Officer

Sample Delivery Group Narrative

Project:	JEA – KGS – Off-Site Investigations – TransMontaigne Facility
Client	CH2M Hill 9428 Baymeadows Road Jacksonville, FL 32256
Report Contact:	Walt Ogburn
Dates of Receipt:	April 30th, 2010
Sample Summary:	The samples received for this project are summarized in the attached sample login forms in Appendix A.
META Project Number:	C01008
SDG No.:	CH100430
Total Pages in Report:	197

Chain of Custody

The samples were received in good condition. The internal temperature of the shipping container was within the recommended 0-6°C range and was as follows:

Samples received: 04/30/2010 0.8°C Ice present

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

The soil samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (MAHs and PAHs), alkyl PAH homologues and other selected compounds.

Soil samples also were analyzed by TestAmerica of Tallahasse Florida for selected metals, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs).

TestAmerica
Attn: Amy Marks
2846 Industrial Plaza Dr.
Tallahassee, FL 32301
(850) 878-3994

Results

Sample results are presented in several appendices which follow this narrative.

Appendix B: GC/FID Fingerprints
Appendix C: MAH/PAH Concentrations
Appendix D: Extended MAH/PAH Profiles - Histograms
Appendix E: Extracted Ion Current Profiles (EICPs)
Appendix F: TestAmerica Laboratory Report

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

All samples were extracted outside of the EPA recommended 7 day holding time for VOCs and 14 day holding time for SVOCs. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion with the following exceptions; perylene-d12 was over recovered in field samples TM-DP-29 (8-9) (143%) and TM-DP-30 (7-10) (140%) due to the high level dilution performed on the samples (100x).

Blanks

Benzene, toluene, styrene, heptadecane and octadecane were detected below or just above the

reporting limit (RL) in soil blank QC100503-SB1. Compounds detected in field samples at levels less than 10x blank levels should be evaluated for potential positive bias.

Blank Spikes

A blank spike sample was extracted with each analytical batch. All spiked compounds were recovered within criteria.

Duplicates

Sample TM-DP-26 (3-4) was extracted and analyzed in duplicate. Relative percent differences are reported with the sample results in Appendix C.

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

TestAmerica Quality Control Summary

TestAmerica's quality control summary is presented in the stand alone laboratory report attached as Appendix F. META has reviewed the deficiencies and no deviations were thought significant enough to compromise the integrity of TestAmerica's reported values.

Interpretation

Introduction

Four samples of soil were received by META from the JEA – KGS – TransMontaigne Facility site on April 30th, 2010. The samples were analyzed for hydrocarbon fingerprints and an expanded list of MAHs and PAHs. This report summarizes the findings and compares the samples.

A detailed discussion of MAH and PAH fingerprinting can be found in the JEA – Kennedy Station report dated January 19, 2009.

Description of Chemical Fingerprinting Methodology

A detailed description of the chemical fingerprinting methodology used in this study be found in the January 19th, 2009 report.

Sample-Specific Observations

Table 1 summarizes the GC/FID and GC/MS data for each sample. Also provided is a qualitative determination of whether the PAHs were pyrogenic or petrogenically-derived and the potential sources of the PAHs.

Table 1. Sample Specific Comments

Lab ID	Field ID	Comments	Source	Fl/Py	Tentative Identification
CH100430-07	TM-DP-26 (3-4)	Trace level distribution of MAHs and PAHs with 3-ring PAHs most abundant; Total PAH(16) = 0.288 mg/kg	Pyrogenic	1.50	Severely weathered TLM/creosote
CH100430-08	TM-DP-28 (7-11)	Low level unusual distribution of PAHs with relatively high levels of acenaphthene, fluorene, phenathrene and anthrancene.Total PAH(16) = 15.7 mg/kg	Pyrogenic	1.60	Severely weathered TLM/creosote
CH100430-09	TM-DP-29 (8-9)	Wide range distribution of primarily parent PAHs with 2-, 3-, and 4-ring PAHs most abundant; Total PAH(16) = 5,840 mg/kg	Pyrogenic	1.54	TLM, Creosote
CH100430-10	TM-DP-30 (7-10)	Similar to sample TM-DP-29 (8-9) however lower relative levels of naphthalene and methylnaphthalenes indicate substantial environmental degradation; Total PAH(16) = 4,200 mg/kg	Pyrogenic	1.56	TLM, Creosote

TLM – tar like material

Discussion

Sample TM-DP-26 (3-4) contained low level impacts (of MAHs and PAHs in a pyrogenic pattern. Low relative amounts of naphthalene and 2-methylnaphthalene suggest extensive microbial degradation of the PAHs. The present of dibenzofuran and the relatively high benzofluorenes/methylpyrenes ratio (see EICP in Appendix E) suggest a coal tar source. The data suggest that the PAHs in TM-DP-26 (3-4) came from the same source as those in the much higher concentration samples, TM-DP-29 (8-9) and TM-DP-30 (7-10), but have been subject to severe environmental degradation.

Sample TM-DP-28 (7-11) contained relatively high concentrations of acenaphthene, fluorene, and phenanthrene with much lower concentrations of other parent and alkyl PAHs. It is unusual to have substantial concentrations of these parent PAHs without other 2-, 3-, and 4-ring parent or alkyl PAHs present. The lack of substantial alkyl-PAH concentrations suggests these PAHs were pyrogenically derived, and the unusual pattern may be attributable to a combination of subsurface degradation pathways including waterwashing and bacterial degradation. Similarly to TM-DP-26 (3-4), the PAHs in sample TM-DP-28 (7-11) appear to have come from the same source as those in the much higher concentration samples, TM-DP-29 (8-9) and TM-DP-30 (7-10), but have been subject to severe environmental degradation.

The PAH patterns in samples TM-DP-29 (8-9) and TM-DP-30 (7-10) were in a tar-like pattern. The high relative amounts of dibenzofuran (an oxygen-containing compound) and the relatively high fluoranthene/pyrene ratios indicate that the TLM was derived from the pyrolysis of coal at high temperatures. This is illustrated in Figures 1 and 2. The relative precision between the Fl/Py ratios (1.54 and 1.56) indicates that these materials likely originated from the same source or manufacturing process. The lack of monocyclic aromatic hydrocarbons (MAHs), including benzene, toluene, and xylenes, and the apparent low amount of PAHs with 6- or more rings, suggests that the TLM in samples TM-DP-29 (8-9) and TM-DP-30 (7-10) may be a coal tar distillate, such as creosote.

META's VOC and SVOC data is in general agreement with VOC and SVOC data produced by TestAmerica (Appendix F); with the exception of samples TM-DP-29 (8-9) and TM-DP-30 (7-10). These samples contained relatively high concentrations of PAHs and both labs performed high level dilutions, but there does appear to be differences in the results. It was not clear that these samples were true split samples, and it appears that META received a more impacted aliquot of site soil.

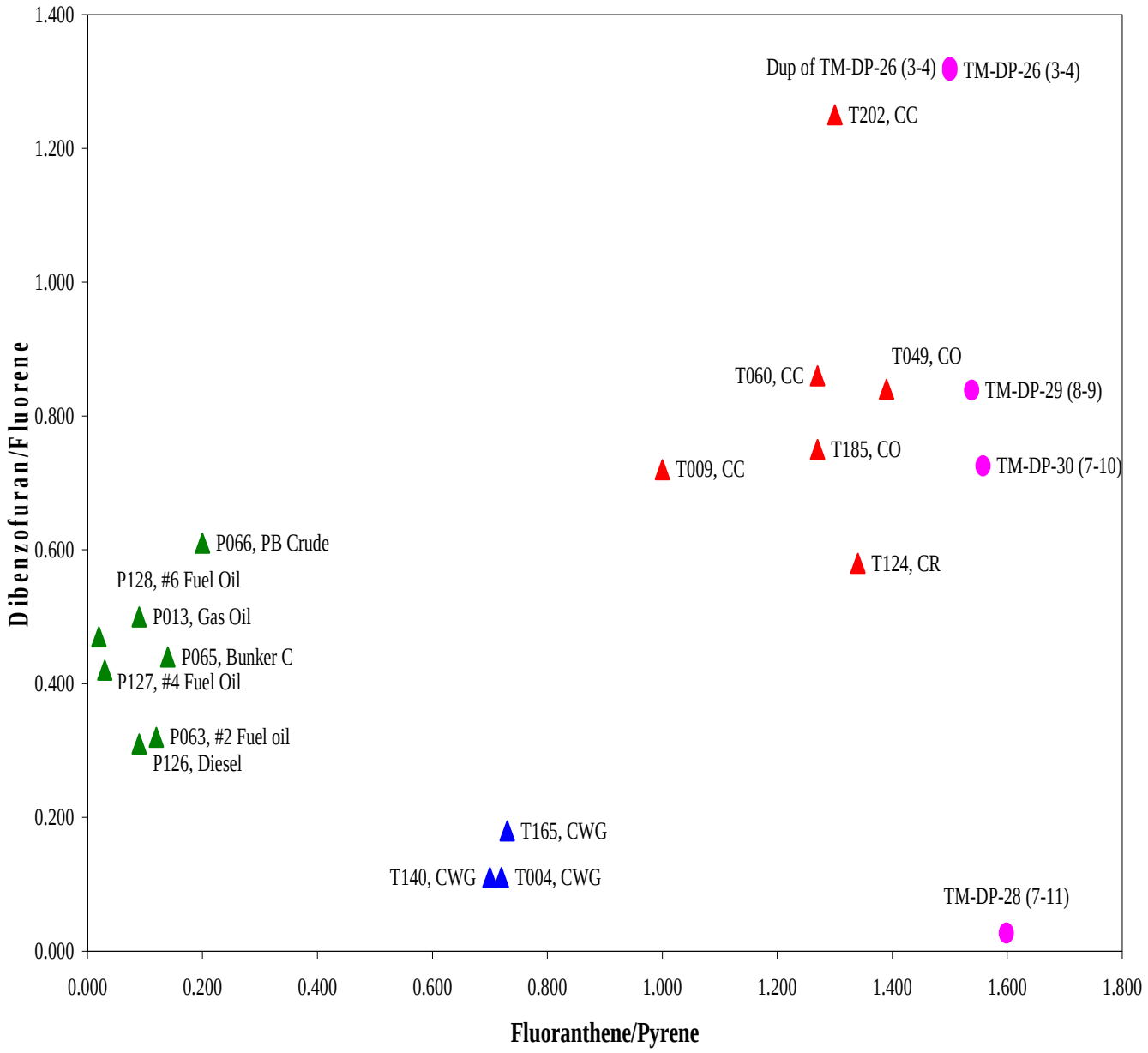
Table 2. Selected Source and Weathering Ratios

Field ID	Fl/Py	D/F	C17/Pri	C18/Phy	Pri/Phy	C3D/C3PA	C2D/C2PA	BF/MP
TM-DP-26 (3-4)	1.50	1.32	NC	NC	NC	NC	NC	NC
Dup of TM-DP-26 (3-4)	1.50	1.32	NC	NC	NC	NC	NC	NC
TM-DP-28 (7-11)	1.60	0.03	NC	NC	NC	0.222	0.548	1.111
TM-DP-29 (8-9)	1.54	0.838	0.333	2.68	4.27	0.393	0.244	1.46
TM-DP-30 (7-10)	1.56	0.725	0.160	1.26	3.89	0.286	0.177	1.53

Ratios:

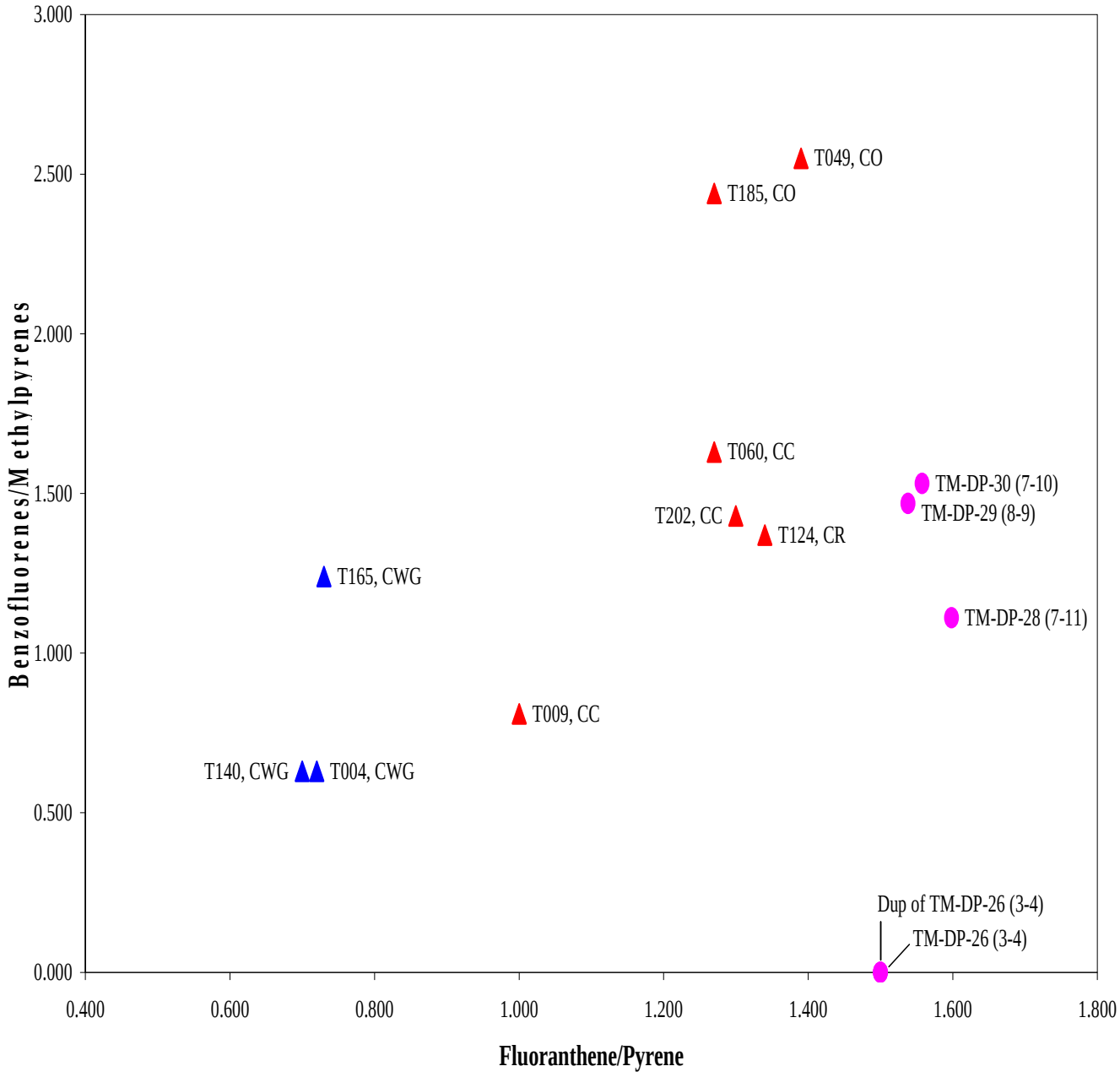
Fl/Py	fluoranthene/pyrene
D/F	dibenzofuran/fluorene
C17/Pris	heptadecane/pristane
C18/Phy	octadecane/phytane
Pris/Phy	pristane/phytane
C3D/C3PA	trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes
C2D/C2PA	dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes
BF/MP	benzofluorenes/methylpyrenes
NC	Not calculable

Figure 1. Selected Diagnostic Ratios – Fl/Py v. D/F



TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

Figure 2. Selected Diagnostic Ratios – Fl/Py v. BF/MP



TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Biogenic substances are produced by life processes. They may be either constituents, or secretions, of plants or animals. Leaf waxes are common biogenic substances found in environmental samples.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." Contaminated Soil Sediment and Water, 17-21, June,July 2001

"Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.

Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

Appendix A

Chain of Custody

Jacksonville Service Center
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: BILL ELLIOTT	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-20885.1
Client Contact: Mr. Dave Mauro	Phone: 352-339-6839	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 1
Company: META Environmental				Job #: 640-27286
Address: 49 Clarendon Street	Due Date Requested:			
City: Watertown	TAT Requested (days):			
State, Zip: MA, 02472				
Phone:	PO #: Purchase Order not requir			
Email: dmauro@metaenv.com	WO #:			
Project Name: JEA Kennedy Station	Project #: 64002874			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - Semivolatiles	8260B - Volatiles	6010B - Metals	7471A - Mercury (Tampa)									Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N										
OM-DP-08 (6-11)	4/16/10	0945	G	S			Y	Y	Y	Y			CH10043	0						POSSIBLE
OM-DP-07 (2-4)	"	1020												0						PETROLEUM
OM-DP-05 (8-12)	"	1145												0	5					FREE PRODUCT,
OM-DP-04 (35-40)	"	1250												0	4					ESPEC.
OM-DP-03 (8-12)	"	1420												0	3					TM 28, 29, 30
OM-DP-02 (3-5)	"	1545												0	6					
TM-DP-26 (3-4)	"	1640												0	7					
TM-DP-28 (7-11)	"	1725												0	8					
TM-DP-29 (8-9)	"	1750												0	9					
TM-DP-30 (7-10)	"	1805												1	0					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/16/10 1905	CH2MHILL		16APR10 1905	TA
2		16APR10 1945	TA		4-17-10 1215	
3		4-29-10 1730			4/30/10	MEA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1°C, 1.5°C, 0.5°

META Environmental, Inc.

Sample Receipt Log

Lab ID	Field ID	Matrix	Prep Method	Cleanup Method	Analysis Method	Date Sampled	Date Received	Project #	Container	Comments	Client Name	Project Name
CH100430-01	OM-DP-08 (6-11)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-02	OM-DP-07 (2-4)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-03	OM-DP-05 (8-12)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-04	OM-DP-04 (35-40)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-05	OM-DP-03 (8-12)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-06	OM-DP-02 (3-15)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-07	TM-DP-26 (3-4)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-08	TM-DP-28 (7-11)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-09	TM-DP-29 (8-9)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station
CH100430-10	TM-DP-30 (7-10)	Soil	2508		4007/4008	4/16/2010	4/30/2010	C01008-60	1 x 8 oz jar/ 1 x 4 oz jar		CH2M Hill	JEA Kennedy Station

Logged By: EPL

Date: 4/30/10

Reviewed By: [illegible]

Date: 5/3/10

META Environmental, Inc.

Sample Receipt Checklist

Receipt date: 4/30/10

Login date: 4/30/10

Login personnel: CAM

Client Information:.

Company Name: CH2M Hill

Project Manager: Walt Ogburn

Project Name: JEA KENNEDY STATION

Shipping Information:

How were samples received? UPS (FedEx) DHL Other:

Number of coolers: 1

Internal temperature of coolers: 0.8°C

Was ice present? (Yes) / No

Note: if cooler is outside the 2-6° range, META's project manager should be notified.

Documentation:

Was a Chain of Custody present? (Yes) / No

Was it signed? (Yes) / No

Was all project information present on the COC? (Yes) / No

Was a bill of lading or shipping label retained? (Yes) / No

Sample Information:

Number of sample containers: 20

Does this match the COC? Yes / No

Were all sample containers Intact? (Yes) / No

If no, list samples and problems:

Note: if samples are damaged, META's project manager should be notified.

For aqueous 40ml Voas; was headspace present? Yes / No / (NA)

Comments:

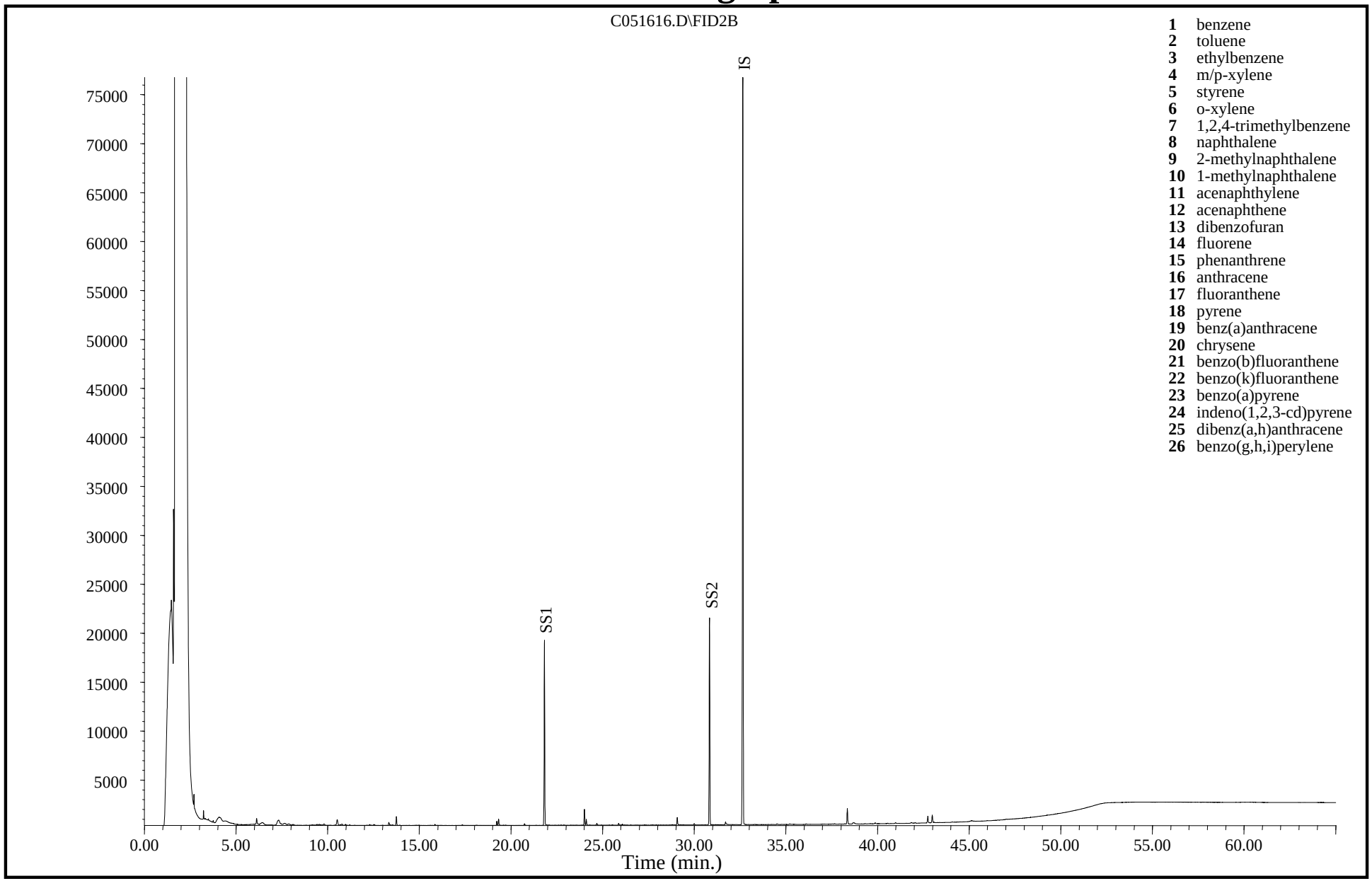
Custodian: EFL / CAM

Project Manager:

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint

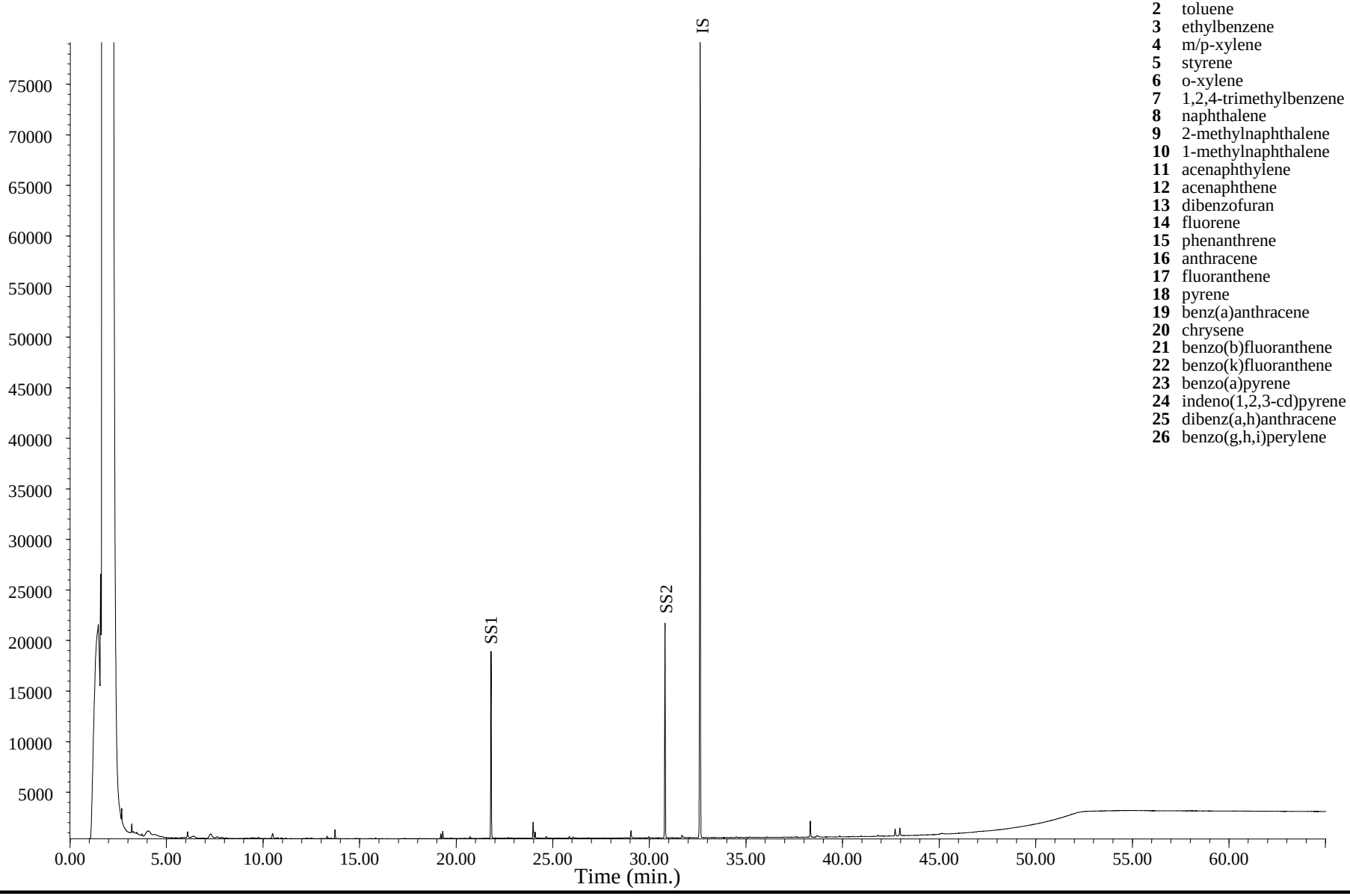


Extraction Date: 5/03/2010
Analysis Date: 5/17/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **TM-DP-26 (3-4)**
Laboratory ID: CH100430-07
Method: EPA 8100M

GC/FID Fingerprint



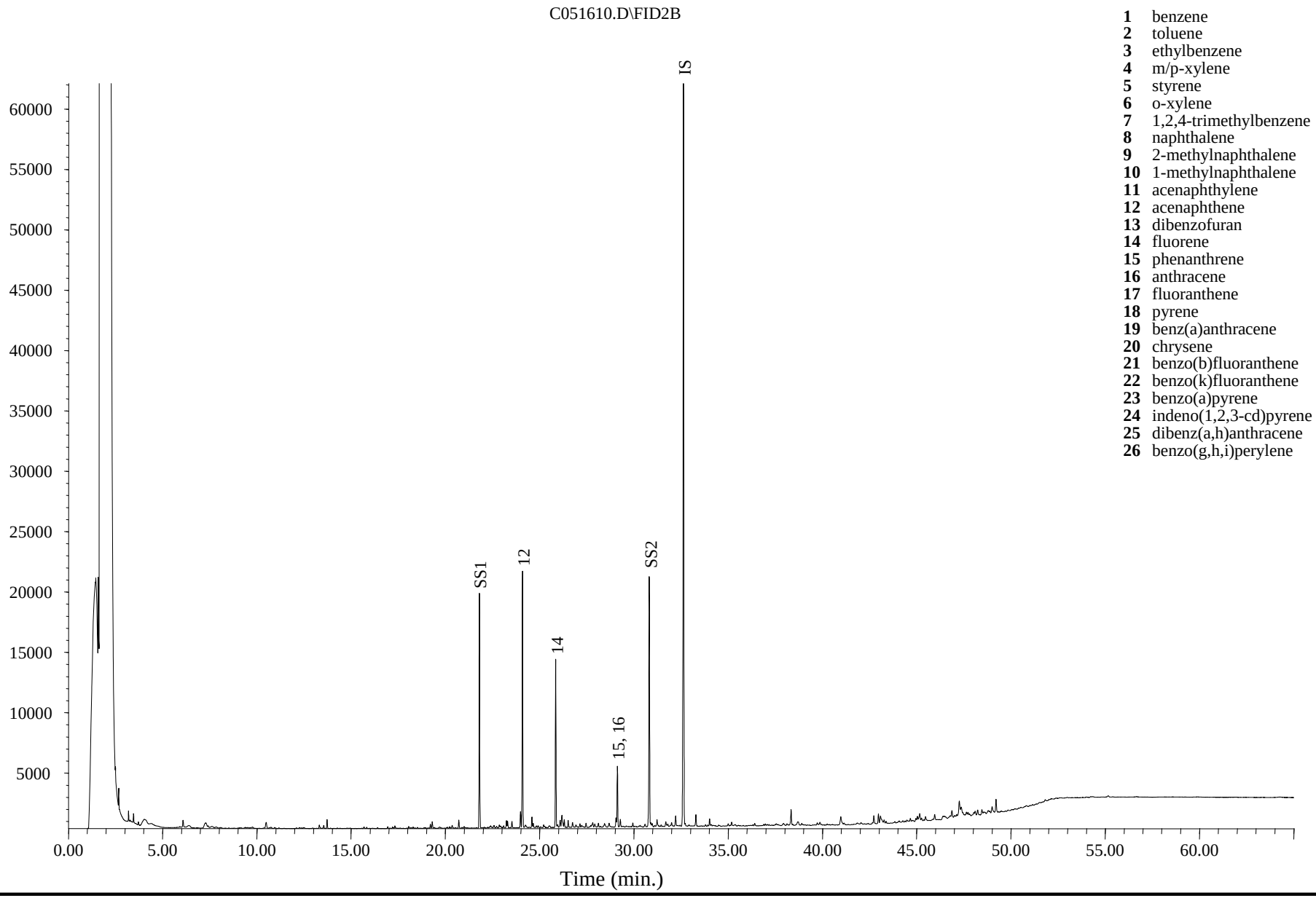
1 benzene
2 toluene
3 ethylbenzene
4 m/p-xylene
5 styrene
6 o-xylene
7 1,2,4-trimethylbenzene
8 naphthalene
9 2-methylnaphthalene
10 1-methylnaphthalene
11 acenaphthylene
12 acenaphthene
13 dibenzofuran
14 fluorene
15 phenanthrene
16 anthracene
17 fluoranthene
18 pyrene
19 benz(a)anthracene
20 chrysene
21 benzo(b)fluoranthene
22 benzo(k)fluoranthene
23 benzo(a)pyrene
24 indeno(1,2,3-cd)pyrene
25 dibenz(a,h)anthracene
26 benzo(g,h,i)perylene

Extraction Date: 5/03/2010
Analysis Date: 5/17/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **TM-DP-26 (3-4)**
Laboratory ID: CH100430-07DUP
Method: EPA 8100M

GC/FID Fingerprint

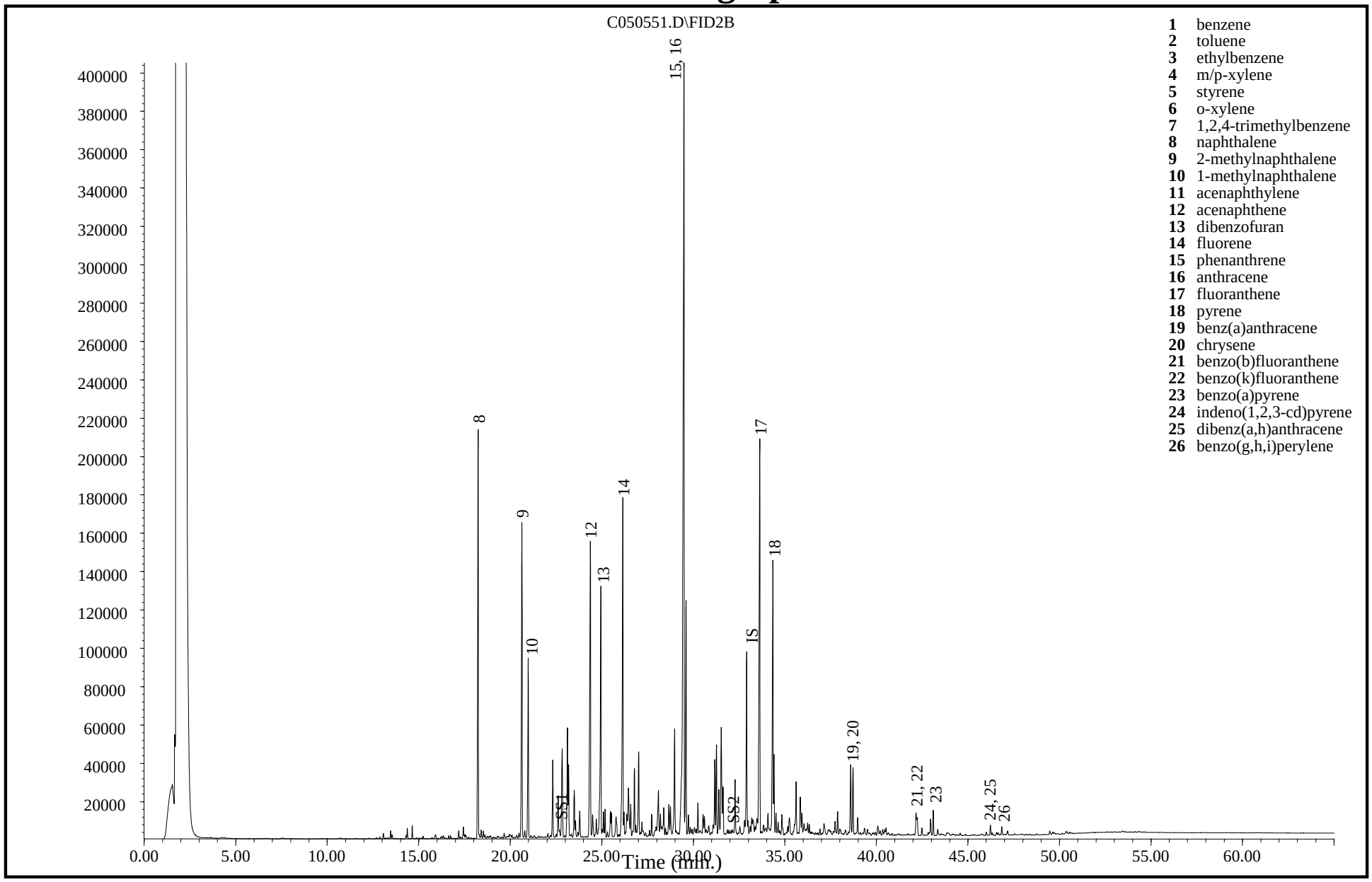


Extraction Date: 5/03/2010
Analysis Date: 5/17/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **TM-DP-28 (7-11)**
Laboratory ID: CH100430-08
Method: EPA 8100M

GC/FID Fingerprint

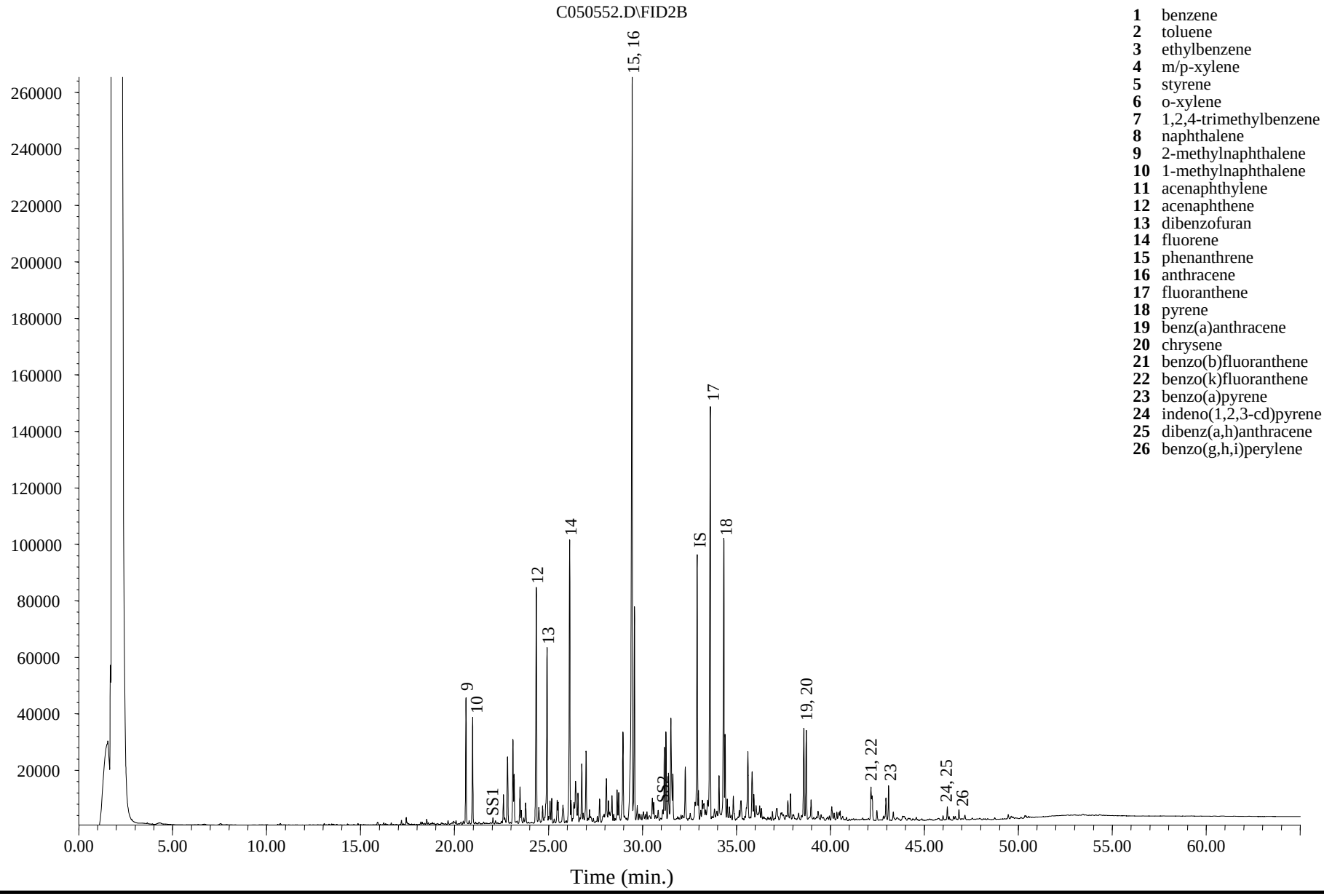


Extraction Date: 5/03/2010
Analysis Date: 5/08/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **TM-DP-29 (8-9)**
Laboratory ID: CH100430-09-D
Method: EPA 8100M

GC/FID Fingerprint



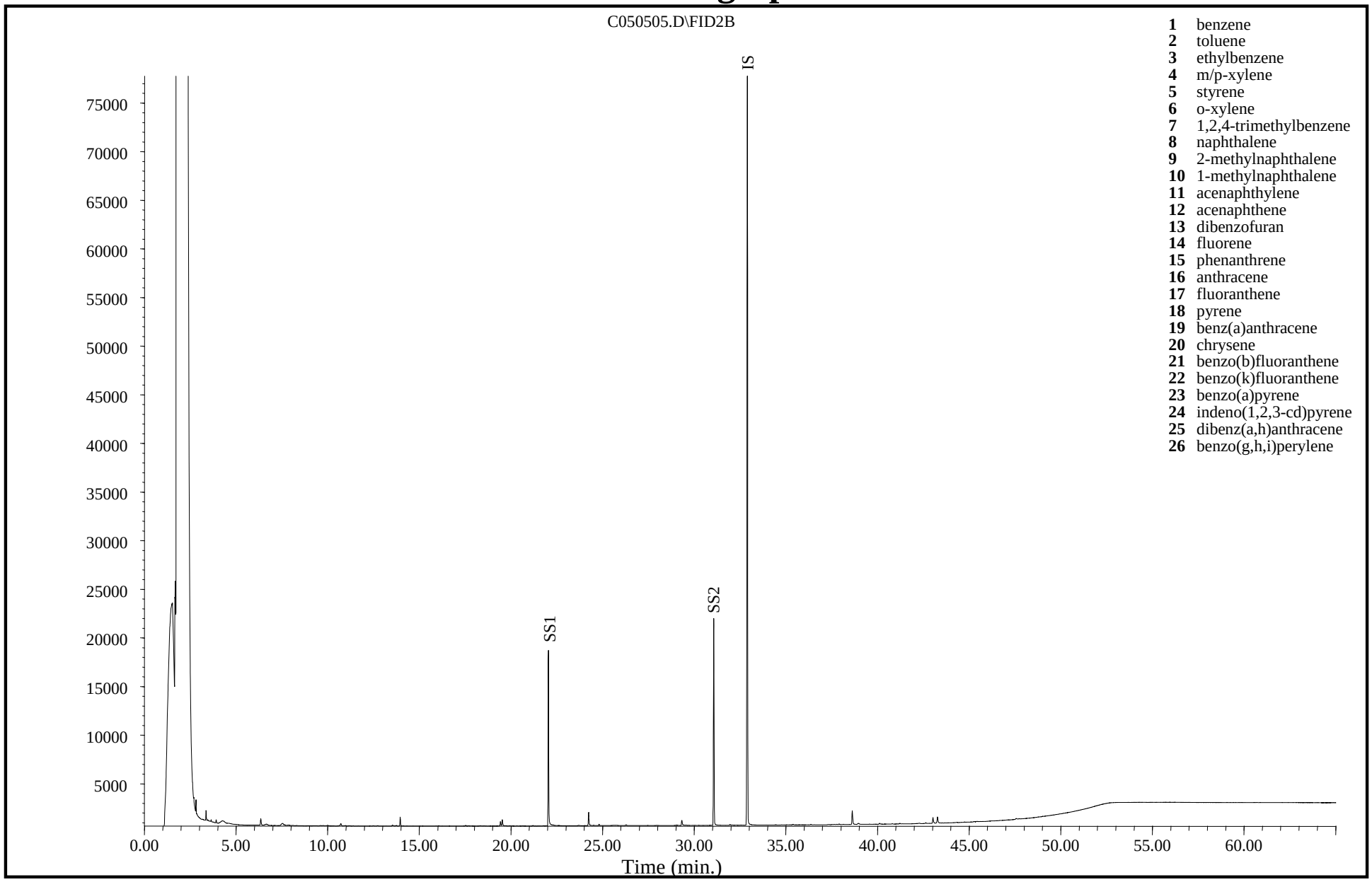
Extraction Date: 5/03/2010
Analysis Date: 5/08/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: **TM-DP-30 (7-10)**
Laboratory ID: CH100430-10-D
Method: EPA 8100M

META

GC/FID Fingerprint



Extraction Date: 5/03/2010
Analysis Date: 5/05/2010

IS – 5a-androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID:	**Soil Blank**
Laboratory ID:	QC100503-SB1
Method:	EPA 8100M

Appendix C

MAH/PAH Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07		
File ID:	E050713.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.42
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.005	B	0.002	0.001	
Toluene	0.007	B	0.002	0.001	
Ethylbenzene		U	0.002	0.001	
m/p-Xylenes	0.001	J	0.002	0.001	
Styrene	0.033	B	0.002	0.001	
o-Xylene		U	0.002	0.001	
Isopropylbenzene		U	0.002	0.001	
n-Propylbenzene		U	0.002	0.001	
1,3,5-Trimethylbenzene		U	0.002	0.001	
1,2,4-Trimethylbenzene		U	0.002	0.001	
t-Butylbenzene		U	0.002	0.001	
sec-Butylbenzene		U	0.002	0.001	
p-Isopropyltoluene		U	0.002	0.001	
n-Butylbenzene		U	0.002	0.001	
C1 - Benzene	0.004	B	0.002	0.001	
C2 - Benzene	0.002	J	0.002	0.001	
C3 - Benzene		U	0.002	0.001	
C4 - Benzene		U	0.002	0.001	
C5 - Benzene		U	0.002	0.001	
trans-Decalin		U	0.002	0.001	
cis-Decalin		U	0.002	0.001	
Naphthalene	0.002		0.002	0.001	
2-Methylnaphthalene	0.001	J	0.002	0.001	
1-Methylnaphthalene	0.058		0.002	0.001	
C1 - Naphthalene	0.035		0.002	0.001	
C2 - Naphthalene	0.024		0.002	0.001	
C3- Naphthalene	0.006		0.002	0.001	
C4- Naphthalene		U	0.002	0.001	
Acenaphthylene		U	0.002	0.001	
Acenaphthene	0.185		0.002	0.001	
Dibenzofuran	0.079		0.002	0.001	
Fluorene	0.060		0.002	0.001	
C1 - Fluorene	0.004		0.002	0.001	
C2 - Fluorene		U	0.002	0.001	
C3 - Fluorene		U	0.002	0.001	
Phenanthrene	0.013		0.002	0.001	
Anthracene	0.003		0.002	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07		
File ID:	E050713.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.42
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	0.003		0.002	0.001	
C2 - Phenanthrene/Anthracene		U	0.002	0.001	
C3 - Phenanthrene/Anthracene		U	0.002	0.001	
C4 - Phenanthrene/Anthracene		U	0.002	0.001	
Dibenzothiophene	0.005		0.002	0.001	
C1 - Dibenzothiophene		U	0.002	0.001	
C2 - Dibenzothiophene		U	0.002	0.001	
C3 - Dibenzothiophene		U	0.002	0.001	
C4 - Dibenzothiophene		U	0.002	0.001	
Benzo(b)naphtho(2,1-d)thiophene		U	0.002	0.001	
Fluoranthene	0.015		0.002	0.001	
Pyrene	0.010		0.002	0.001	
C1 - Fluoranthene/Pyrene	0.003		0.002	0.001	
C2 - Fluoranthene/Pyrene	0.001	J	0.002	0.001	
C3 - Fluoranthene/Pyrene		U	0.002	0.001	
Benz(a)anthracene		U	0.002	0.001	
Chrysene*		U	0.002	0.001	
C1 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C2 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C3 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C4 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
Benzo(b)fluoranthene		U	0.002	0.001	
Benzo(j/k)fluoranthene		U	0.002	0.001	
Benzo(e)pyrene		U	0.002	0.001	
Benzo(a)pyrene		U	0.002	0.001	
Perylene		U	0.002	0.001	
Indeno(1,2,3-cd)pyrene		U	0.002	0.001	
Dibenz(a,h)anthracene		U	0.002	0.001	
Benzo(g,h,i)perylene		U	0.002	0.001	
Coronene		U	0.002	0.001	
Retene		U	0.002	0.001	
Benzo(b/c)fluorenes		U	0.002	0.001	
2-Methylpyrene		U	0.002	0.001	
4-Methylpyrene		U	0.002	0.001	
1-Methylpyrene		U	0.002	0.001	
Heptadecane	0.005	B	0.002	0.001	
Pristane		U	0.002	0.001	
Octadecane	0.019	B	0.002	0.001	
Phytane		U	0.002	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07		
File ID:	E050713.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.42
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.002	0.001	
2,6,10-trimethyltridecane	0.002 J	0.002	0.001	
Norpristane	U	0.002	0.001	
Total PAH (16)	0.288	0.002	0.001	
Total PAH (42)	0.448	0.002	0.001	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	84	50 - 120
Phenanthrene-d10	104	50 - 120
Benzo(a)pyrene-d12	105	50 - 120
Perylene-d12	107	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-28 (7-11)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-08		
File ID:	E050715.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.19
Date Cleanup:	NA	Percent Solid:	68.8%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.008	B	0.003	0.001	
Toluene	0.028	B	0.003	0.001	
Ethylbenzene	0.003		0.003	0.001	
m/p-Xylenes	0.024		0.003	0.001	
Styrene	0.055	B	0.003	0.001	
o-Xylene	0.008		0.003	0.001	
Isopropylbenzene	0.002	J	0.003	0.001	
n-Propylbenzene	0.003	J	0.003	0.001	
1,3,5-Trimethylbenzene	0.004		0.003	0.001	
1,2,4-Trimethylbenzene	0.008		0.003	0.001	
t-Butylbenzene		U	0.003	0.001	
sec-Butylbenzene	0.001	J	0.003	0.001	
p-Isopropyltoluene	0.004		0.003	0.001	
n-Butylbenzene	0.004		0.003	0.001	
C1 - Benzene	0.019	B	0.003	0.001	
C2 - Benzene	0.019		0.003	0.001	
C3 - Benzene	0.015		0.003	0.001	
C4 - Benzene	0.046		0.003	0.001	
C5 - Benzene	0.043		0.003	0.001	
trans-Decalin	0.001	J	0.003	0.001	
cis-Decalin		U	0.003	0.001	
Naphthalene	0.006		0.003	0.001	
2-Methylnaphthalene	0.065		0.003	0.001	
1-Methylnaphthalene	0.201		0.003	0.001	
C1 - Naphthalene	0.160		0.003	0.001	
C2 - Naphthalene	0.360		0.003	0.001	
C3- Naphthalene	0.201		0.003	0.001	
C4- Naphthalene	0.040		0.003	0.001	
Acenaphthylene	0.007		0.003	0.001	
Acenaphthene	7.47		0.003	0.001	
Dibenzofuran	0.144		0.003	0.001	
Fluorene	5.28		0.003	0.001	
C1 - Fluorene	0.299		0.003	0.001	
C2 - Fluorene	0.032		0.003	0.001	
C3 - Fluorene	0.015		0.003	0.001	
Phenanthrene	1.86		0.003	0.001	
Anthracene	0.245		0.003	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-28 (7-11)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-08		
File ID:	E050715.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.19
Date Cleanup:	NA	Percent Solid:	68.8%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	0.150		0.003	0.001	
C2 - Phenanthrene/Anthracene	0.062		0.003	0.001	
C3 - Phenanthrene/Anthracene	0.018		0.003	0.001	
C4 - Phenanthrene/Anthracene	0.011		0.003	0.001	
Dibenzothiophene	0.118		0.003	0.001	
C1 - Dibenzothiophene	0.098		0.003	0.001	
C2 - Dibenzothiophene	0.034		0.003	0.001	
C3 - Dibenzothiophene	0.004		0.003	0.001	
C4 - Dibenzothiophene		U	0.003	0.001	
Benzo(b)naphtho(2,1-d)thiophene	0.007		0.003	0.001	
Fluoranthene	0.398		0.003	0.001	
Pyrene	0.249		0.003	0.001	
C1 - Fluoranthene/Pyrene	0.078		0.003	0.001	
C2 - Fluoranthene/Pyrene	0.020		0.003	0.001	
C3 - Fluoranthene/Pyrene	0.008		0.003	0.001	
Benz(a)anthracene	0.040		0.003	0.001	
Chrysene*	0.036		0.003	0.001	
C1 - Benz(a)anthracene/Chrysene	0.013		0.003	0.001	
C2 - Benz(a)anthracene/Chrysene	0.007		0.003	0.001	
C3 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C4 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
Benzo(b)fluoranthene	0.016		0.003	0.001	
Benzo(j/k)fluoranthene	0.016		0.003	0.001	
Benzo(e)pyrene	0.012		0.003	0.001	
Benzo(a)pyrene	0.017		0.003	0.001	
Perylene	0.030		0.003	0.001	
Indeno(1,2,3-cd)pyrene	0.010		0.003	0.001	
Dibenz(a,h)anthracene	0.003	J	0.003	0.001	
Benzo(g,h,i)perylene	0.009		0.003	0.001	
Coronene	0.003		0.003	0.001	
Retene	0.076		0.003	0.001	
Benzo(b/c)fluorenes	0.020		0.003	0.001	
2-Methylpyrene	0.008		0.003	0.001	
4-Methylpyrene	0.005		0.003	0.001	
1-Methylpyrene	0.005		0.003	0.001	
Heptadecane	0.035	B	0.003	0.001	
Pristane		U	0.003	0.001	
Octadecane	0.009	B	0.003	0.001	
Phytane		U	0.003	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-28 (7-11)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-08		
File ID:	E050715.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.19
Date Cleanup:	NA	Percent Solid:	68.8%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
2,6,10-trimethyldodecane		U	0.003	0.001	
2,6,10-trimethyltridecane	0.003		0.003	0.001	
Norpristane		U	0.003	0.001	
Total PAH (16)	15.7		0.003	0.001	
Total PAH (42)	17.6		0.003	0.001	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	94	50 - 120
Phenanthrene-d10	116	50 - 120
Benzo(a)pyrene-d12	120	50 - 120
Perylene-d12	120	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-29 (8-9)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-09-D		
File ID:	E050718.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	61.2%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.238	JB	0.310	0.155	
Toluene	0.217	JB	0.310	0.155	
Ethylbenzene	0.233	J	0.310	0.155	
m/p-Xylenes	0.335		0.310	0.155	
Styrene	4.33	B	0.310	0.155	
o-Xylene	0.241	J	0.310	0.155	
Isopropylbenzene	0.615		0.310	0.155	
n-Propylbenzene	0.283	J	0.310	0.155	
1,3,5-Trimethylbenzene	2.42		0.310	0.155	
1,2,4-Trimethylbenzene	4.81		0.310	0.155	
t-Butylbenzene		U	0.310	0.155	
sec-Butylbenzene		U	0.310	0.155	
p-Isopropyltoluene	17.2		0.310	0.155	
n-Butylbenzene	1.2		0.310	0.155	
C1 - Benzene		BU	0.310	0.155	
C2 - Benzene	0.499		0.310	0.155	
C3 - Benzene	7.67		0.310	0.155	
C4 - Benzene	17.8		0.310	0.155	
C5 - Benzene	6.79		0.310	0.155	
trans-Decalin	0.195	J	0.310	0.155	
cis-Decalin		U	0.310	0.155	
Naphthalene	669		0.310	0.155	
2-Methylnaphthalene	607		0.310	0.155	
1-Methylnaphthalene	308		0.310	0.155	
C1 - Naphthalene	544		0.310	0.155	
C2 - Naphthalene	372		0.310	0.155	
C3- Naphthalene	146		0.310	0.155	
C4- Naphthalene	40.7		0.310	0.155	
Acenaphthylene	8.36		0.310	0.155	
Acenaphthene	572		0.310	0.155	
Dibenzofuran	602		0.310	0.155	
Fluorene	718		0.310	0.155	
C1 - Fluorene	123		0.310	0.155	
C2 - Fluorene	49.2		0.310	0.155	
C3 - Fluorene	22.0		0.310	0.155	
Phenanthrene	1,580	D	0.310	0.155	
Anthracene	337	D	0.310	0.155	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-29 (8-9)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-09-D		
File ID:	E050718.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	61.2%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	273	D	0.310	0.155	
C2 - Phenanthrene/Anthracene	77.9	D	0.310	0.155	
C3 - Phenanthrene/Anthracene	18.3	D	0.310	0.155	
C4 - Phenanthrene/Anthracene	4.27	D	0.310	0.155	
Dibenzothiophene	188		0.310	0.155	
C1 - Dibenzothiophene	42.8		0.310	0.155	
C2 - Dibenzothiophene	19.0		0.310	0.155	
C3 - Dibenzothiophene	7.19		0.310	0.155	
C4 - Dibenzothiophene	1.77		0.310	0.155	
Benzo(b)naphtho(2,1-d)thiophene	24.8		0.310	0.155	
Fluoranthene	949		0.310	0.155	
Pyrene	617		0.310	0.155	
C1 - Fluoranthene/Pyrene	215		0.310	0.155	
C2 - Fluoranthene/Pyrene	42.1		0.310	0.155	
C3 - Fluoranthene/Pyrene	13.6		0.310	0.155	
Benz(a)anthracene	129		0.310	0.155	
Chrysene*	111		0.310	0.155	
C1 - Benz(a)anthracene/Chrysene	30.2		0.310	0.155	
C2 - Benz(a)anthracene/Chrysene	9.13		0.310	0.155	
C3 - Benz(a)anthracene/Chrysene	3.14		0.310	0.155	
C4 - Benz(a)anthracene/Chrysene		U	0.310	0.155	
Benzo(b)fluoranthene	37.9		0.310	0.155	
Benzo(j/k)fluoranthene	39.6		0.310	0.155	
Benzo(e)pyrene	24.5		0.310	0.155	
Benzo(a)pyrene	40.9		0.310	0.155	
Perylene	9.65		0.310	0.155	
Indeno(1,2,3-cd)pyrene	15.6		0.310	0.155	
Dibenz(a,h)anthracene	4.7		0.310	0.155	
Benzo(g,h,i)perylene	12.6		0.310	0.155	
Coronene	2.34		0.310	0.155	
Retene	2.89		0.310	0.155	
Benzo(b/c)fluorenes	63.3		0.310	0.155	
2-Methylpyrene	20.2		0.310	0.155	
4-Methylpyrene	11.7		0.310	0.155	
1-Methylpyrene	11.2		0.310	0.155	
Heptadecane	3.96	B	0.310	0.155	
Pristane	11.9		0.310	0.155	
Octadecane	7.48	B	0.310	0.155	
Phytane	2.79		0.310	0.155	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-29 (8-9)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-09-D		
File ID:	E050718.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	61.2%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	3.07	0.310	0.155	
2,6,10-trimethyltridecane	6.17	0.310	0.155	
Norpristane	3.05	0.310	0.155	
Total PAH (16)	5,840	0.310	0.155	
Total PAH (42)	8,720	0.310	0.155	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	58	50 - 120
Phenanthrene-d10	98	50 - 120
Benzo(a)pyrene-d12	100	50 - 120
Perylene-d12	143	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-30 (7-10)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-10-D		
File ID:	E050719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.30
Date Cleanup:	NA	Percent Solid:	51.0%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.265	JB	0.370	0.185	
Toluene	0.338	JB	0.370	0.185	
Ethylbenzene		U	0.370	0.185	
m/p-Xylenes	0.188	J	0.370	0.185	
Styrene	4.8	B	0.370	0.185	
o-Xylene		U	0.370	0.185	
Isopropylbenzene	0.297	J	0.370	0.185	
n-Propylbenzene		U	0.370	0.185	
1,3,5-Trimethylbenzene		U	0.370	0.185	
1,2,4-Trimethylbenzene		U	0.370	0.185	
t-Butylbenzene		U	0.370	0.185	
sec-Butylbenzene		U	0.370	0.185	
p-Isopropyltoluene	0.529		0.370	0.185	
n-Butylbenzene	0.363	J	0.370	0.185	
C1 - Benzene	0.266	JB	0.370	0.185	
C2 - Benzene	0.297	J	0.370	0.185	
C3 - Benzene	0.797		0.370	0.185	
C4 - Benzene	4.9		0.370	0.185	
C5 - Benzene	3.72		0.370	0.185	
trans-Decalin		U	0.370	0.185	
cis-Decalin		U	0.370	0.185	
Naphthalene	2.76		0.370	0.185	
2-Methylnaphthalene	172		0.370	0.185	
1-Methylnaphthalene	138		0.370	0.185	
C1 - Naphthalene	185		0.370	0.185	
C2 - Naphthalene	212		0.370	0.185	
C3- Naphthalene	101		0.370	0.185	
C4- Naphthalene	31.8		0.370	0.185	
Acenaphthylene	8.45		0.370	0.185	
Acenaphthene	335		0.370	0.185	
Dibenzofuran	322		0.370	0.185	
Fluorene	444		0.370	0.185	
C1 - Fluorene	90.0		0.370	0.185	
C2 - Fluorene	43.8		0.370	0.185	
C3 - Fluorene	21.3		0.370	0.185	
Phenanthrene	1,400		0.370	0.185	
Anthracene	336		0.370	0.185	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-30 (7-10)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-10-D		
File ID:	E050719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.30
Date Cleanup:	NA	Percent Solid:	51.0%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	304	0.370	0.185	
C2 - Phenanthrene/Anthracene	102	0.370	0.185	
C3 - Phenanthrene/Anthracene	25.9	0.370	0.185	
C4 - Phenanthrene/Anthracene	6.84	0.370	0.185	
Dibenzothiophene	121	0.370	0.185	
C1 - Dibenzothiophene	33.1	0.370	0.185	
C2 - Dibenzothiophene	18.1	0.370	0.185	
C3 - Dibenzothiophene	7.4	0.370	0.185	
C4 - Dibenzothiophene	1.87	0.370	0.185	
Benzo(b)naphtho(2,1-d)thiophene	30.1	0.370	0.185	
Fluoranthene	771	0.370	0.185	
Pyrene	495	0.370	0.185	
C1 - Fluoranthene/Pyrene	216	0.370	0.185	
C2 - Fluoranthene/Pyrene	47.7	0.370	0.185	
C3 - Fluoranthene/Pyrene	17.1	0.370	0.185	
Benz(a)anthracene	130	0.370	0.185	
Chrysene*	119	0.370	0.185	
C1 - Benz(a)anthracene/Chrysene	35.9	0.370	0.185	
C2 - Benz(a)anthracene/Chrysene	11.3	0.370	0.185	
C3 - Benz(a)anthracene/Chrysene	4.16	0.370	0.185	
C4 - Benz(a)anthracene/Chrysene	2.32	0.370	0.185	
Benzo(b)fluoranthene	43.7	0.370	0.185	
Benzo(j/k)fluoranthene	43.9	0.370	0.185	
Benzo(e)pyrene	27.7	0.370	0.185	
Benzo(a)pyrene	43.6	0.370	0.185	
Perylene	9.95	0.370	0.185	
Indeno(1,2,3-cd)pyrene	15.6	0.370	0.185	
Dibenz(a,h)anthracene	4.73	0.370	0.185	
Benzo(g,h,i)perylene	12.3	0.370	0.185	
Coronene	1.84	0.370	0.185	
Retene	5.32	0.370	0.185	
Benzo(b/c)fluorenes	63.1	0.370	0.185	
2-Methylpyrene	19.3	0.370	0.185	
4-Methylpyrene	11.6	0.370	0.185	
1-Methylpyrene	10.3	0.370	0.185	
Heptadecane	1.74 B	0.370	0.185	
Pristane	10.9	0.370	0.185	
Octadecane	3.54 B	0.370	0.185	
Phytane	2.8	0.370	0.185	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: TM-DP-30 (7-10)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-10-D		
File ID:	E050719.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.30
Date Cleanup:	NA	Percent Solid:	51.0%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	100
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	3.09	0.370	0.185	
2,6,10-trimethyltridecane	5.65	0.370	0.185	
Norpristane	8.91	0.370	0.185	
Total PAH (16)	4,200	0.370	0.185	
Total PAH (42)	6,200	0.370	0.185	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	98	50 - 120
Benzo(a)pyrene-d12	103	50 - 120
Perylene-d12	140	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SB1		
File ID:	E051704.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/17/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	0.002 J	0.003	0.001	
Toluene	0.004	0.003	0.001	
Ethylbenzene	U	0.003	0.001	
m/p-Xylenes	U	0.003	0.001	
Styrene	0.002 J	0.003	0.001	
o-Xylene	U	0.003	0.001	
Isopropylbenzene	U	0.003	0.001	
n-Propylbenzene	U	0.003	0.001	
1,3,5-Trimethylbenzene	U	0.003	0.001	
1,2,4-Trimethylbenzene	U	0.003	0.001	
t-Butylbenzene	U	0.003	0.001	
sec-Butylbenzene	U	0.003	0.001	
p-Isopropyltoluene	U	0.003	0.001	
n-Butylbenzene	U	0.003	0.001	
C1 - Benzene	0.003 J	0.003	0.001	
C2 - Benzene	U	0.003	0.001	
C3 - Benzene	U	0.003	0.001	
C4 - Benzene	U	0.003	0.001	
C5 - Benzene	U	0.003	0.001	
trans-Decalin	U	0.003	0.001	
cis-Decalin	U	0.003	0.001	
Naphthalene	U	0.003	0.001	
2-Methylnaphthalene	U	0.003	0.001	
1-Methylnaphthalene	U	0.003	0.001	
C1 - Naphthalene	U	0.003	0.001	
C2 - Naphthalene	U	0.003	0.001	
C3- Naphthalene	U	0.003	0.001	
C4- Naphthalene	U	0.003	0.001	
Acenaphthylene	U	0.003	0.001	
Acenaphthene	U	0.003	0.001	
Dibenzofuran	U	0.003	0.001	
Fluorene	U	0.003	0.001	
C1 - Fluorene	U	0.003	0.001	
C2 - Fluorene	U	0.003	0.001	
C3 - Fluorene	U	0.003	0.001	
Phenanthrene	U	0.003	0.001	
Anthracene	U	0.003	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SB1		
File ID:	E051704.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/17/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene		U	0.003	0.001	
C2 - Phenanthrene/Anthracene		U	0.003	0.001	
C3 - Phenanthrene/Anthracene		U	0.003	0.001	
C4 - Phenanthrene/Anthracene		U	0.003	0.001	
Dibenzothiophene		U	0.003	0.001	
C1 - Dibenzothiophene		U	0.003	0.001	
C2 - Dibenzothiophene		U	0.003	0.001	
C3 - Dibenzothiophene		U	0.003	0.001	
C4 - Dibenzothiophene		U	0.003	0.001	
Benzo(b)naphtho(2,1-d)thiophene		U	0.003	0.001	
Fluoranthene		U	0.003	0.001	
Pyrene		U	0.003	0.001	
C1 - Fluoranthene/Pyrene		U	0.003	0.001	
C2 - Fluoranthene/Pyrene		U	0.003	0.001	
C3 - Fluoranthene/Pyrene		U	0.003	0.001	
Benz(a)anthracene		U	0.003	0.001	
Chrysene*		U	0.003	0.001	
C1 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C2 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C3 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C4 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
Benzo(b)fluoranthene		U	0.003	0.001	
Benzo(j/k)fluoranthene		U	0.003	0.001	
Benzo(e)pyrene		U	0.003	0.001	
Benzo(a)pyrene		U	0.003	0.001	
Perylene		U	0.003	0.001	
Indeno(1,2,3-cd)pyrene		U	0.003	0.001	
Dibenz(a,h)anthracene		U	0.003	0.001	
Benzo(g,h,i)perylene		U	0.003	0.001	
Coronene		U	0.003	0.001	
Retene		U	0.003	0.001	
Benzo(b/c)fluorenes		U	0.003	0.001	
2-Methylpyrene		U	0.003	0.001	
4-Methylpyrene		U	0.003	0.001	
1-Methylpyrene		U	0.003	0.001	
Heptadecane	0.006		0.003	0.001	
Pristane		U	0.003	0.001	
Octadecane	0.006		0.003	0.001	
Phytane		U	0.003	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SB1		
File ID:	E051704.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/17/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.003	0.001	
2,6,10-trimethyltridecane	U	0.003	0.001	
Norpristane	U	0.003	0.001	
Total PAH (16)	U	0.003	0.001	
Total PAH (42)	U	0.003	0.001	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	78	50 - 120
Phenanthrene-d10	90	50 - 120
Benzo(a)pyrene-d12	101	50 - 120
Perylene-d12	101	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SBS1		
File ID:	E050707.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/7/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:	Spike Amount				% Recovery
Benzene	2.50	1.86 B	0.003	0.001	74
Toluene	2.50	2.02 B	0.003	0.001	81
Ethylbenzene	2.50	2.0	0.003	0.001	80
m/p-Xylenes	2.50	1.98	0.003	0.001	79
Styrene	2.50	2.14 B	0.003	0.001	86
o-Xylene	2.50	2.02	0.003	0.001	81
Isopropylbenzene	2.50	2.17	0.003	0.001	87
n-Propylbenzene	2.50	2.15	0.003	0.001	86
1,3,5-Trimethylbenzene	2.50	2.25	0.003	0.001	90
1,2,4-Trimethylbenzene	2.50	2.32	0.003	0.001	93
t-Butylbenzene		U	0.003	0.001	
sec-Butylbenzene	2.50	2.32	0.003	0.001	93
p-Isopropyltoluene	2.50	2.35	0.003	0.001	94
n-Butylbenzene	2.50	2.22	0.003	0.001	89
C1 - Benzene		BU	0.003	0.001	
C2 - Benzene		U	0.003	0.001	
C3 - Benzene		U	0.003	0.001	
C4 - Benzene		U	0.003	0.001	
C5 - Benzene		U	0.003	0.001	
trans-Decalin		U	0.003	0.001	
cis-Decalin		U	0.003	0.001	
Naphthalene	2.50	2.11	0.003	0.001	84
2-Methylnaphthalene	2.50	2.24	0.003	0.001	90
1-Methylnaphthalene	2.50	2.22	0.003	0.001	89
C1 - Naphthalene		U	0.003	0.001	
C2 - Naphthalene		U	0.003	0.001	
C3- Naphthalene		U	0.003	0.001	
C4- Naphthalene		U	0.003	0.001	
Acenaphthylene	2.50	2.36	0.003	0.001	94
Acenaphthene	2.50	2.3	0.003	0.001	92
Dibenzofuran	2.50	2.38	0.003	0.001	95
Fluorene	2.50	2.47	0.003	0.001	99
C1 - Fluorene		U	0.003	0.001	
C2 - Fluorene		U	0.003	0.001	
C3 - Fluorene		U	0.003	0.001	
Phenanthrene	2.50	2.4	0.003	0.001	96
Anthracene	2.50	2.28	0.003	0.001	91

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SBS1		
File ID:	E050707.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/7/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene		U	0.003	0.001	
C2 - Phenanthrene/Anthracene		U	0.003	0.001	
C3 - Phenanthrene/Anthracene		U	0.003	0.001	
C4 - Phenanthrene/Anthracene		U	0.003	0.001	
Dibenzothiophene	2.50	2.31	0.003	0.001	92
C1 - Dibenzothiophene		U	0.003	0.001	
C2 - Dibenzothiophene		U	0.003	0.001	
C3 - Dibenzothiophene		U	0.003	0.001	
C4 - Dibenzothiophene		U	0.003	0.001	
Benzo(b)naphtho(2,1-d)thiophene		U	0.003	0.001	
Fluoranthene	2.50	2.6	0.003	0.001	104
Pyrene	2.50	2.57	0.003	0.001	103
C1 - Fluoranthene/Pyrene		U	0.003	0.001	
C2 - Fluoranthene/Pyrene		U	0.003	0.001	
C3 - Fluoranthene/Pyrene		U	0.003	0.001	
Benz(a)anthracene	2.50	2.5	0.003	0.001	100
Chrysene*	2.50	2.42	0.003	0.001	97
C1 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C2 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C3 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
C4 - Benz(a)anthracene/Chrysene		U	0.003	0.001	
Benzo(b)fluoranthene	2.50	2.28	0.003	0.001	91
Benzo(j/k)fluoranthene	2.50	2.32	0.003	0.001	93
Benzo(e)pyrene	2.50	2.2	0.003	0.001	88
Benzo(a)pyrene	2.50	2.3	0.003	0.001	92
Perylene		U	0.003	0.001	
Indeno(1,2,3-cd)pyrene	2.50	2.23	0.003	0.001	89
Dibenz(a,h)anthracene	2.50	2.3	0.003	0.001	92
Benzo(g,h,i)perylene	2.50	2.11	0.003	0.001	84
Coronene		U	0.003	0.001	
Retene		U	0.003	0.001	
Benzo(b/c)fluorenes		U	0.003	0.001	
2-Methylpyrene		U	0.003	0.001	
4-Methylpyrene		U	0.003	0.001	
1-Methylpyrene		U	0.003	0.001	
Heptadecane		BU	0.003	0.001	
Pristane		U	0.003	0.001	
Octadecane		BU	0.003	0.001	
Phytane		U	0.003	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC100503-SBS1		
File ID:	E050707.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	5/3/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	5/7/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
2,6,10-trimethyldodecane		U	0.003	0.001	
2,6,10-trimethyltridecane		U	0.003	0.001	
Norpristane		U	0.003	0.001	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	76	50 - 120
Phenanthrene-d10	94	50 - 120
Benzo(a)pyrene-d12	95	50 - 120
Perylene-d12	94	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MS		
File ID:	E050721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.20
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
MAH & PAH COMPOUNDS:	Spike Amount					% Recovery
Benzene	2.30	1.25	B	0.002	0.001	53
Toluene	2.30	1.46	B	0.002	0.001	60
Ethylbenzene	2.30	1.46		0.002	0.001	62
m/p-Xylenes	2.30	1.52		0.002	0.001	60
Styrene	2.30	1.55	B	0.002	0.001	66
o-Xylene	2.30	1.51		0.002	0.001	63
Isopropylbenzene	2.30	1.61		0.002	0.001	69
n-Propylbenzene	2.30	1.6		0.002	0.001	68
1,3,5-Trimethylbenzene	2.30	1.79		0.002	0.001	72
1,2,4-Trimethylbenzene	2.30	1.91		0.002	0.001	72
t-Butylbenzene			U	0.002	0.001	
sec-Butylbenzene	2.30	1.75		0.002	0.001	74
p-Isopropyltoluene	2.30	2.01		0.002	0.001	72
n-Butylbenzene	2.30	1.71		0.002	0.001	70
C1 - Benzene			BU	0.002	0.001	
C2 - Benzene			U	0.002	0.001	
C3 - Benzene			U	0.002	0.001	
C4 - Benzene			U	0.002	0.001	
C5 - Benzene			U	0.002	0.001	
trans-Decalin		0.815		0.002	0.001	
cis-Decalin		0.069		0.002	0.001	
Naphthalene	2.30	1.75		0.002	0.001	66
2-Methylnaphthalene	2.30	2.02		0.002	0.001	64
1-Methylnaphthalene	2.30	1.96		0.002	0.001	64
C1 - Naphthalene			U	0.002	0.001	
C2 - Naphthalene			U	0.002	0.001	
C3- Naphthalene			U	0.002	0.001	
C4- Naphthalene			U	0.002	0.001	
Acenaphthylene	2.30	1.81		0.002	0.001	75
Acenaphthene	2.30	1.8		0.002	0.001	73
Dibenzofuran	2.30	1.84		0.002	0.001	75
Fluorene	2.30	1.96		0.002	0.001	79
C1 - Fluorene			U	0.002	0.001	
C2 - Fluorene			U	0.002	0.001	
C3 - Fluorene			U	0.002	0.001	
Phenanthrene	2.30	2.11		0.002	0.001	71
Anthracene	2.30	1.78		0.002	0.001	72

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MS		
File ID:	E050721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.20
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene		U	0.002	0.001	
C2 - Phenanthrene/Anthracene		U	0.002	0.001	
C3 - Phenanthrene/Anthracene		U	0.002	0.001	
C4 - Phenanthrene/Anthracene		U	0.002	0.001	
Dibenzothiophene	2.30	1.76	0.002	0.001	74
C1 - Dibenzothiophene		U	0.002	0.001	
C2 - Dibenzothiophene		U	0.002	0.001	
C3 - Dibenzothiophene		U	0.002	0.001	
C4 - Dibenzothiophene		U	0.002	0.001	
Benzo(b)naphtho(2,1-d)thiophene		U	0.002	0.001	
Fluoranthene	2.30	2.14	0.002	0.001	73
Pyrene	2.30	2.07	0.002	0.001	73
C1 - Fluoranthene/Pyrene		U	0.002	0.001	
C2 - Fluoranthene/Pyrene		U	0.002	0.001	
C3 - Fluoranthene/Pyrene		U	0.002	0.001	
Benz(a)anthracene	2.30	1.68	0.002	0.001	69
Chrysene*	2.30	1.67	0.002	0.001	65
C1 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C2 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C3 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
C4 - Benz(a)anthracene/Chrysene		U	0.002	0.001	
Benzo(b)fluoranthene	2.30	1.53	0.002	0.001	63
Benzo(j/k)fluoranthene	2.30	1.43	0.002	0.001	59
Benzo(e)pyrene	2.30	1.45	0.002	0.001	60
Benzo(a)pyrene	2.30	1.4	0.002	0.001	59
Perylene		U	0.002	0.001	
Indeno(1,2,3-cd)pyrene	2.30	1.57	0.002	0.001	66
Dibenz(a,h)anthracene	2.30	1.42	0.002	0.001	61
Benzo(g,h,i)perylene	2.30	1.34	0.002	0.001	54
Coronene		U	0.002	0.001	
Retene		U	0.002	0.001	
Benzo(b/c)fluorenes		U	0.002	0.001	
2-Methylpyrene		U	0.002	0.001	
4-Methylpyrene		U	0.002	0.001	
1-Methylpyrene		U	0.002	0.001	
Heptadecane		BU	0.002	0.001	
Pristane		U	0.002	0.001	
Octadecane		BU	0.002	0.001	
Phytane		U	0.002	0.001	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MS		
File ID:	E050721.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.20
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
2,6,10-trimethyldodecane		U	0.002	0.001	
2,6,10-trimethyltridecane		U	0.002	0.001	
Norpristane		U	0.002	0.001	
Extraction Surrogate Recoveries (%)			Limits		
Toluene-d8	59		50 - 120		
Phenanthrene-d10	79		50 - 120		
Benzo(a)pyrene-d12	71		50 - 120		
Perylene-d12	71		50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MSD		
File ID:	E050722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments	
MAH & PAH COMPOUNDS:	Spike Amount					% Recovery	RPD
Benzene	2.27	0.94	B	0.00	0.00	40	28.1
Toluene	2.27	1.15	B	0.00	0.00	47	23.8
Ethylbenzene	2.27	1.18		0.00	0.00	51	21.2
m/p-Xylenes	2.27	1.28		0.00	0.00	50	17.1
Styrene	2.27	1.30	B	0.00	0.00	56	17.5
o-Xylene	2.27	1.25		0.00	0.00	53	18.8
Isopropylbenzene	2.27	1.32		0.00	0.00	57	19.8
n-Propylbenzene	2.27	1.34		0.00	0.00	57	17.7
1,3,5-Trimethylbenzene	2.27	1.58		0.00	0.00	63	12.5
1,2,4-Trimethylbenzene	2.27	1.75		0.00	0.00	66	8.7
t-Butylbenzene			U	0.00	0.00		
sec-Butylbenzene	2.27	1.48		0.00	0.00	63	16.7
p-Isopropyltoluene	2.27	1.82		0.00	0.00	65	9.9
n-Butylbenzene	2.27	1.51		0.00	0.00	63	12.4
C1 - Benzene			BU	0.00	0.00		
C2 - Benzene			U	0.00	0.00		
C3 - Benzene			U	0.00	0.00		
C4 - Benzene			U	0.00	0.00		
C5 - Benzene			U	0.00	0.00		
trans-Decalin		1.88		0.00	0.00		
cis-Decalin			U	0.00	0.00		
Naphthalene	2.27	1.50		0.00	0.00	56	15.4
2-Methylnaphthalene	2.27	2.48		0.00	0.00	85	20.4
1-Methylnaphthalene	2.27	2.47		0.00	0.00	88	23
C1 - Naphthalene			U	0.00	0.00		
C2 - Naphthalene			U	0.00	0.00		
C3- Naphthalene			U	0.00	0.00		
C4- Naphthalene			U	0.00	0.00		
Acenaphthylene	2.27	1.55		0.00	0.00	64	15.5
Acenaphthene	2.27	1.53		0.00	0.00	63	16.2
Dibenzofuran	2.27	1.62		0.00	0.00	67	12.7
Fluorene	2.27	1.72		0.00	0.00	70	13
C1 - Fluorene			U	0.00	0.00		
C2 - Fluorene			U	0.00	0.00		
C3 - Fluorene			U	0.00	0.00		
Phenanthrene	2.27	2.04		0.00	0.00	69	3.4
Anthracene	2.27	1.54		0.00	0.00	62	14.5

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MSD		
File ID:	E050722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments	
C1 - Phenanthrene/Anthracene		U	0.00	0.00		
C2 - Phenanthrene/Anthracene		U	0.00	0.00		
C3 - Phenanthrene/Anthracene		U	0.00	0.00		
C4 - Phenanthrene/Anthracene		U	0.00	0.00		
Dibenzothiophene	2.27	1.50	0.00	0.00	64	16
C1 - Dibenzothiophene		U	0.00	0.00		
C2 - Dibenzothiophene		U	0.00	0.00		
C3 - Dibenzothiophene		U	0.00	0.00		
C4 - Dibenzothiophene		U	0.00	0.00		
Benzo(b)naphtho(2,1-d)thiophene		U	0.00	0.00		
Fluoranthene	2.27	1.66	0.00	0.00	53	25.3
Pyrene	2.27	1.59	0.00	0.00	52	26.2
C1 - Fluoranthene/Pyrene		U	0.00	0.00		
C2 - Fluoranthene/Pyrene		U	0.00	0.00		
C3 - Fluoranthene/Pyrene		U	0.00	0.00		
Benz(a)anthracene	2.27	1.25	0.00	0.00	51	29.4
Chrysene*	2.27	1.28	0.00	0.00	49	26.4
C1 - Benz(a)anthracene/Chrysene		U	0.00	0.00		
C2 - Benz(a)anthracene/Chrysene		U	0.00	0.00		
C3 - Benz(a)anthracene/Chrysene		U	0.00	0.00		
C4 - Benz(a)anthracene/Chrysene		U	0.00	0.00		
Benzo(b)fluoranthene	2.27	1.18	0.00	0.00	49	25.8
Benzo(j/k)fluoranthene	2.27	1.10	0.00	0.00	46	26.1
Benzo(e)pyrene	2.27	1.11	0.00	0.00	45	26.6
Benzo(a)pyrene	2.27	1.12	0.00	0.00	47	22.2
Perylene		U	0.00	0.00		
Indeno(1,2,3-cd)pyrene	2.27	1.34	0.00	0.00	56	15.8
Dibenz(a,h)anthracene	2.27	1.22	0.00	0.00	53	15.2
Benzo(g,h,i)perylene	2.27	1.14	0.00	0.00	46	16.1
Coronene		U	0.00	0.00		
Retene		U	0.00	0.00		
Benzo(b/c)fluorenes		U	0.00	0.00		
2-Methylpyrene		U	0.00	0.00		
4-Methylpyrene		U	0.00	0.00		
1-Methylpyrene		U	0.00	0.00		
Heptadecane		BU	0.00	0.00		
Pristane		U	0.00	0.00		
Octadecane		BU	0.00	0.00		
Phytane		U	0.00	0.00		

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Matrix Spike Duplicate

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-06MSD		
File ID:	E050722.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.27
Date Cleanup:	NA	Percent Solid:	83.5%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
2,6,10-trimethyldodecane		U	0.00	0.00	
2,6,10-trimethyltridecane		U	0.00	0.00	
Norpristane		U	0.00	0.00	
Extraction Surrogate Recoveries (%)			Limits		
Toluene-d8	48		50 - 120		
Phenanthrene-d10	68		50 - 120		
Benzo(a)pyrene-d12	60		50 - 120		
Perylene-d12	59		50 - 120		

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07DUP		
File ID:	E050714.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.05
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					RPD
Benzene	0.005	B	0.002	0.001	0
Toluene	0.006	B	0.002	0.001	15.4
Ethylbenzene		U	0.002	0.001	NA
m/p-Xylenes	0.001	J	0.002	0.001	0
Styrene	0.030	B	0.002	0.001	9.5
o-Xylene		U	0.002	0.001	NA
Isopropylbenzene		U	0.002	0.001	NA
n-Propylbenzene		U	0.002	0.001	NA
1,3,5-Trimethylbenzene		U	0.002	0.001	NA
1,2,4-Trimethylbenzene		U	0.002	0.001	NA
t-Butylbenzene		U	0.002	0.001	NA
sec-Butylbenzene		U	0.002	0.001	NA
p-Isopropyltoluene		U	0.002	0.001	NA
n-Butylbenzene		U	0.002	0.001	NA
C1 - Benzene	0.004	B	0.002	0.001	0
C2 - Benzene	0.002	J	0.002	0.001	0
C3 - Benzene		U	0.002	0.001	NA
C4 - Benzene		U	0.002	0.001	NA
C5 - Benzene		U	0.002	0.001	NA
trans-Decalin		U	0.002	0.001	NA
cis-Decalin		U	0.002	0.001	NA
Naphthalene	0.002	J	0.002	0.001	0
2-Methylnaphthalene	0.001	J	0.002	0.001	0
1-Methylnaphthalene	0.046		0.002	0.001	23.1
C1 - Naphthalene	0.028		0.002	0.001	22.2
C2 - Naphthalene	0.020		0.002	0.001	18.2
C3- Naphthalene	0.005		0.002	0.001	18.2
C4- Naphthalene		U	0.002	0.001	NA
Acenaphthylene		U	0.002	0.001	NA
Acenaphthene	0.161		0.002	0.001	13.9
Dibenzofuran	0.070		0.002	0.001	12.1
Fluorene	0.053		0.002	0.001	12.4
C1 - Fluorene	0.003		0.002	0.001	28.6
C2 - Fluorene		U	0.002	0.001	NA
C3 - Fluorene		U	0.002	0.001	NA
Phenanthrene	0.006		0.002	0.001	73.7
Anthracene	0.002	J	0.002	0.001	40

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07DUP		
File ID:	E050714.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.05
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	0.001 J	0.002	0.001	100
C2 - Phenanthrene/Anthracene	U	0.002	0.001	NA
C3 - Phenanthrene/Anthracene	U	0.002	0.001	NA
C4 - Phenanthrene/Anthracene	U	0.002	0.001	NA
Dibenzothiophene	0.004	0.002	0.001	22.2
C1 - Dibenzothiophene	0.004	0.002	0.001	NA
C2 - Dibenzothiophene	U	0.002	0.001	NA
C3 - Dibenzothiophene	U	0.002	0.001	NA
C4 - Dibenzothiophene	U	0.002	0.001	NA
Benzo(b)naphtho(2,1-d)thiophene	U	0.002	0.001	NA
Fluoranthene	0.012	0.002	0.001	22.2
Pyrene	0.008	0.002	0.001	22.2
C1 - Fluoranthene/Pyrene	0.002 J	0.002	0.001	40
C2 - Fluoranthene/Pyrene	0.001 J	0.002	0.001	0
C3 - Fluoranthene/Pyrene	U	0.002	0.001	NA
Benz(a)anthracene	U	0.002	0.001	NA
Chrysene*	U	0.002	0.001	NA
C1 - Benz(a)anthracene/Chrysene	U	0.002	0.001	NA
C2 - Benz(a)anthracene/Chrysene	U	0.002	0.001	NA
C3 - Benz(a)anthracene/Chrysene	U	0.002	0.001	NA
C4 - Benz(a)anthracene/Chrysene	U	0.002	0.001	NA
Benzo(b)fluoranthene	U	0.002	0.001	NA
Benzo(j/k)fluoranthene	U	0.002	0.001	NA
Benzo(e)pyrene	U	0.002	0.001	NA
Benzo(a)pyrene	U	0.002	0.001	NA
Perylene	U	0.002	0.001	NA
Indeno(1,2,3-cd)pyrene	U	0.002	0.001	NA
Dibenz(a,h)anthracene	U	0.002	0.001	NA
Benzo(g,h,i)perylene	U	0.002	0.001	NA
Coronene	U	0.002	0.001	NA
Retene	U	0.002	0.001	NA
Benzo(b/c)fluorenes	U	0.002	0.001	NA
2-Methylpyrene	U	0.002	0.001	NA
4-Methylpyrene	U	0.002	0.001	NA
1-Methylpyrene	U	0.002	0.001	NA
Heptadecane	0.006 B	0.002	0.001	18.2
Pristane	U	0.002	0.001	NA
Octadecane	0.005 B	0.002	0.001	116.7
Phytane	U	0.002	0.001	NA

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of TM-DP-26 (3-4)

Client:	CH2M Hill	Preparation Method:	EPA 3570
Project:	JEA Kennedy Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	CH100430-07DUP		
File ID:	E050714.D	Matrix:	Soil
		Preservation:	None
Date Sampled:	4/16/2010	Decanted:	None
Date Received:	4/30/2010		
Date Prepared:	5/3/2010	Sample Size (g):	5.05
Date Cleanup:	NA	Percent Solid:	80.6%
Date Analyzed:	5/8/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	ERL	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC100503-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.002	0.001	NA
2,6,10-trimethyltridecane	0.001 J	0.002	0.001	66.7
Norpristane	U	0.002	0.001	NA
Total PAH (16)	0.244	0.002	0.001	16.5
Total PAH (42)	0.382	0.002	0.001	15.9

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	86	50 - 120
Phenanthrene-d10	103	50 - 120
Benzo(a)pyrene-d12	107	50 - 120
Perylene-d12	107	50 - 120

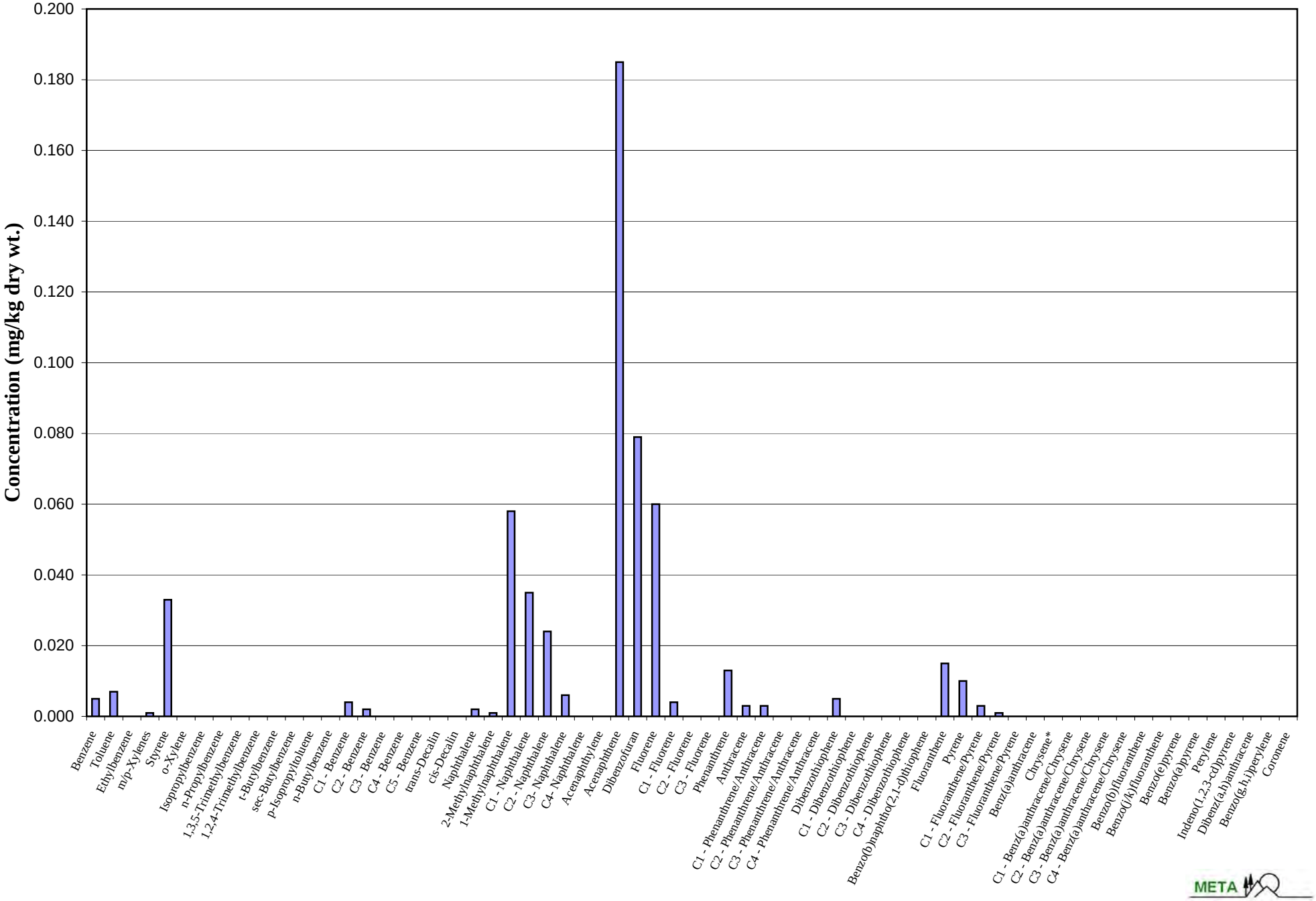
NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Appendix D

Extended MAH/PAH Profiles – Histograms

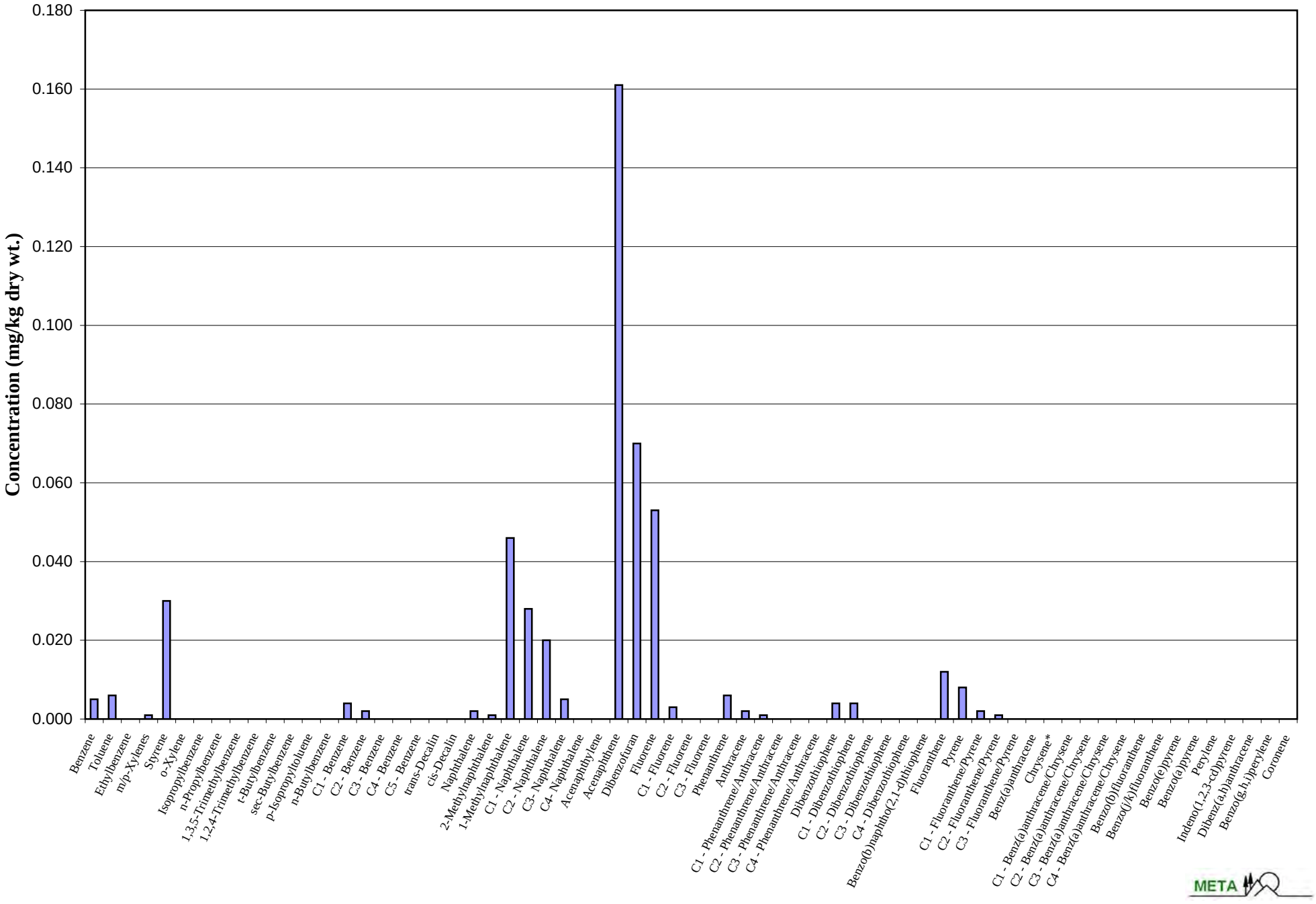
TM-DP-26 (3-4)

CH100430-07



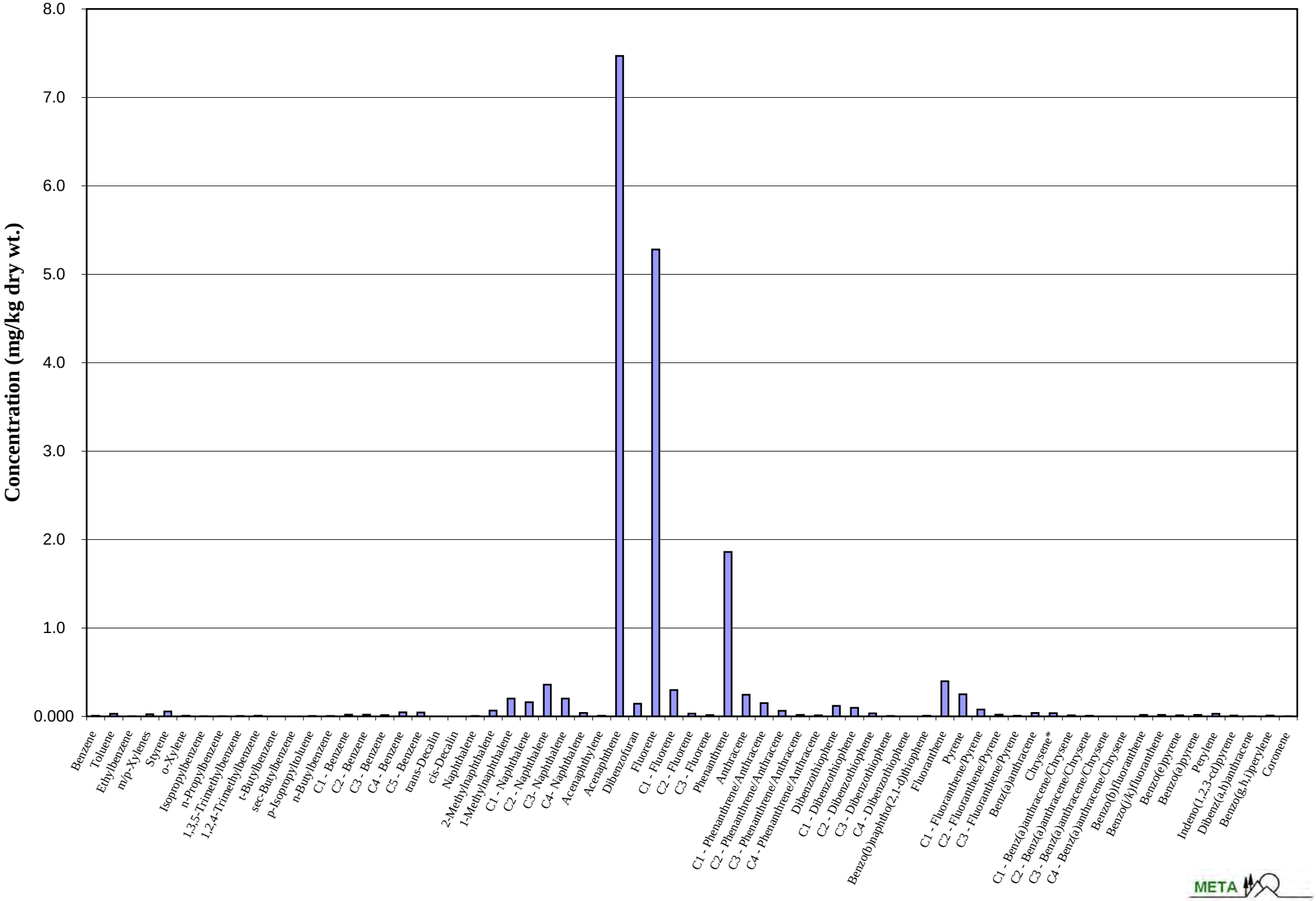
Duplicate of TM-DP-26 (3-4)

CH100430-07DUP



TM-DP-28 (7-11)

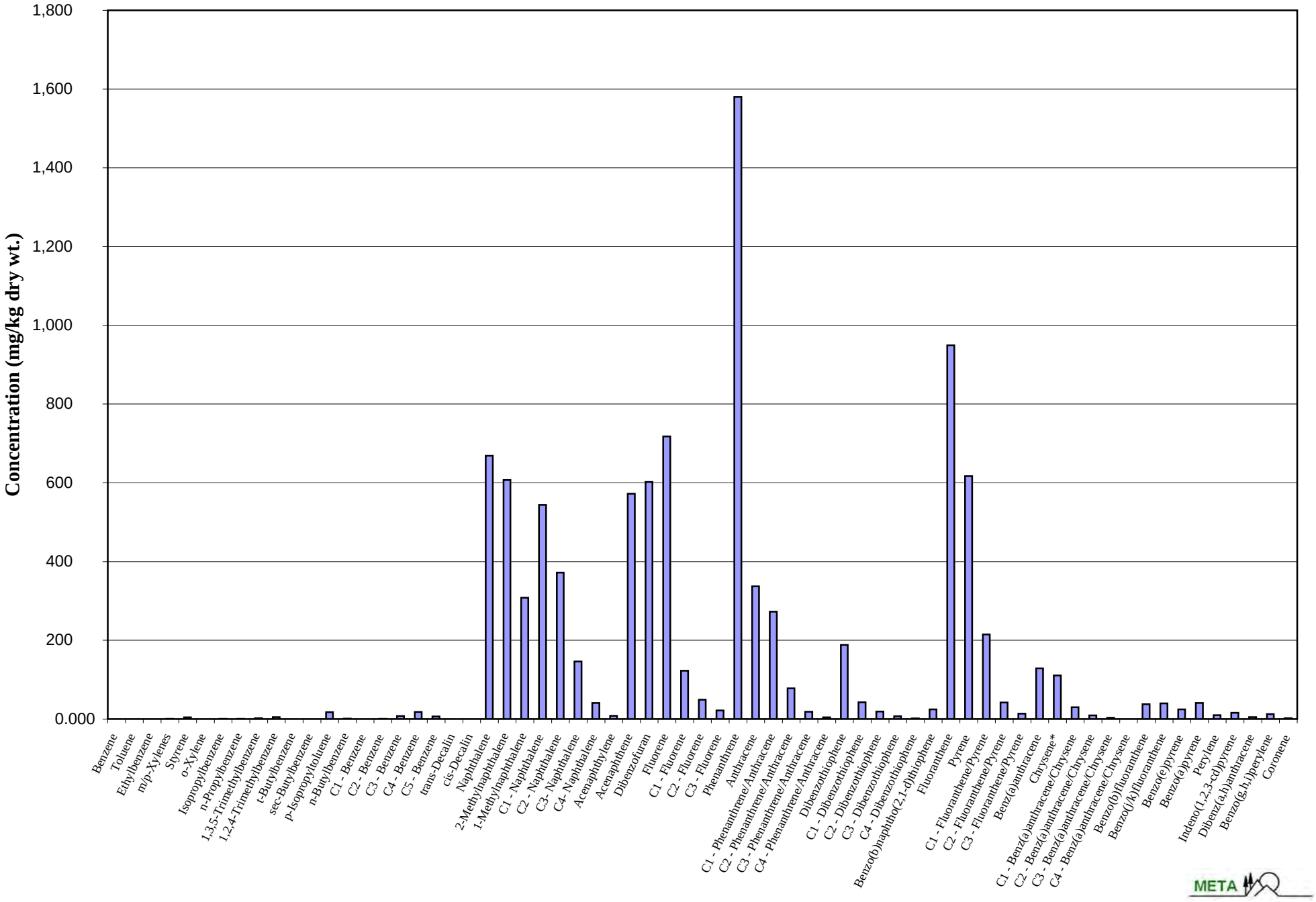
CH100430-08



META

TM-DP-29 (8-9)

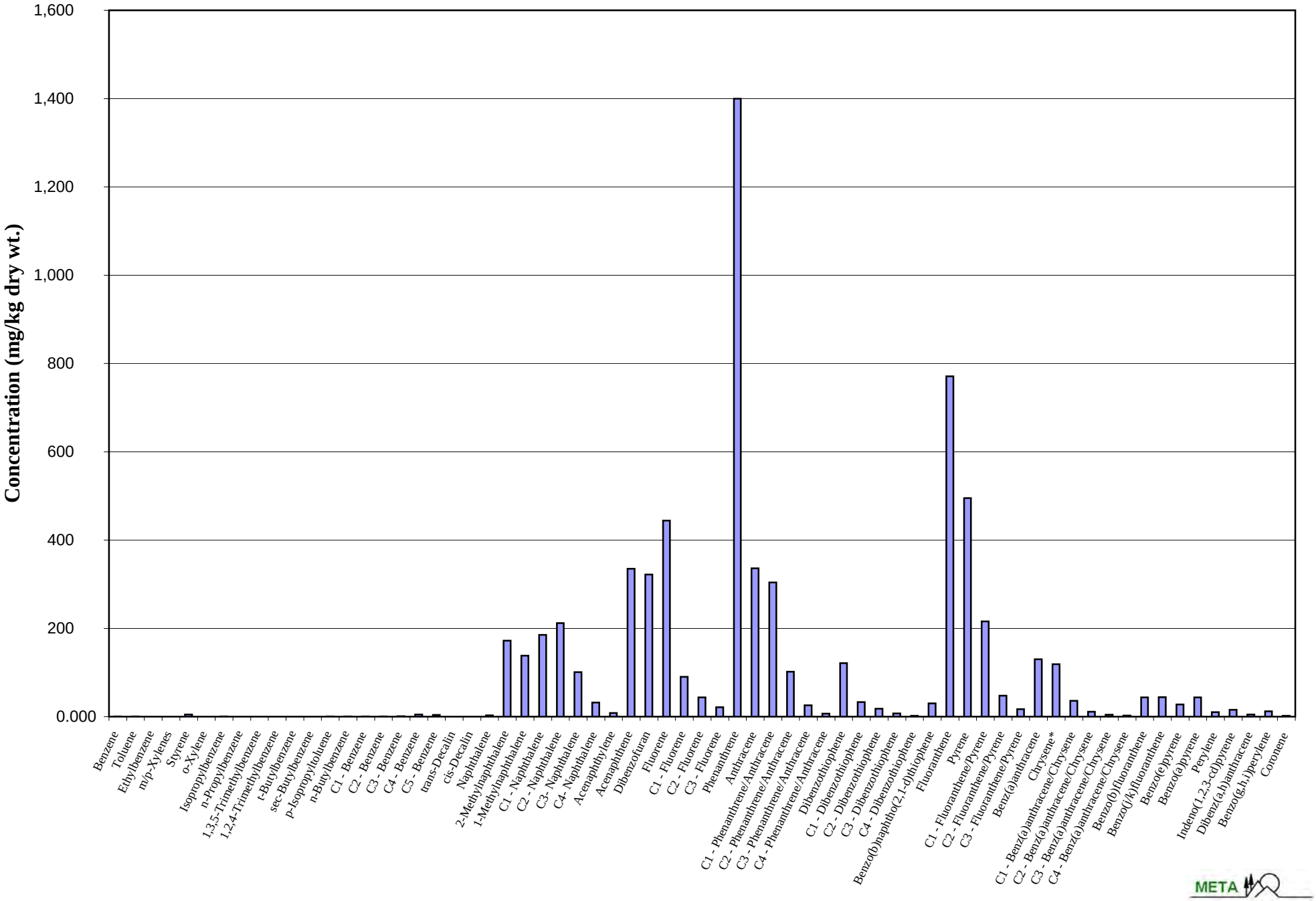
CH100430-09-D



META

TM-DP-30 (7-10)

CH100430-10-D



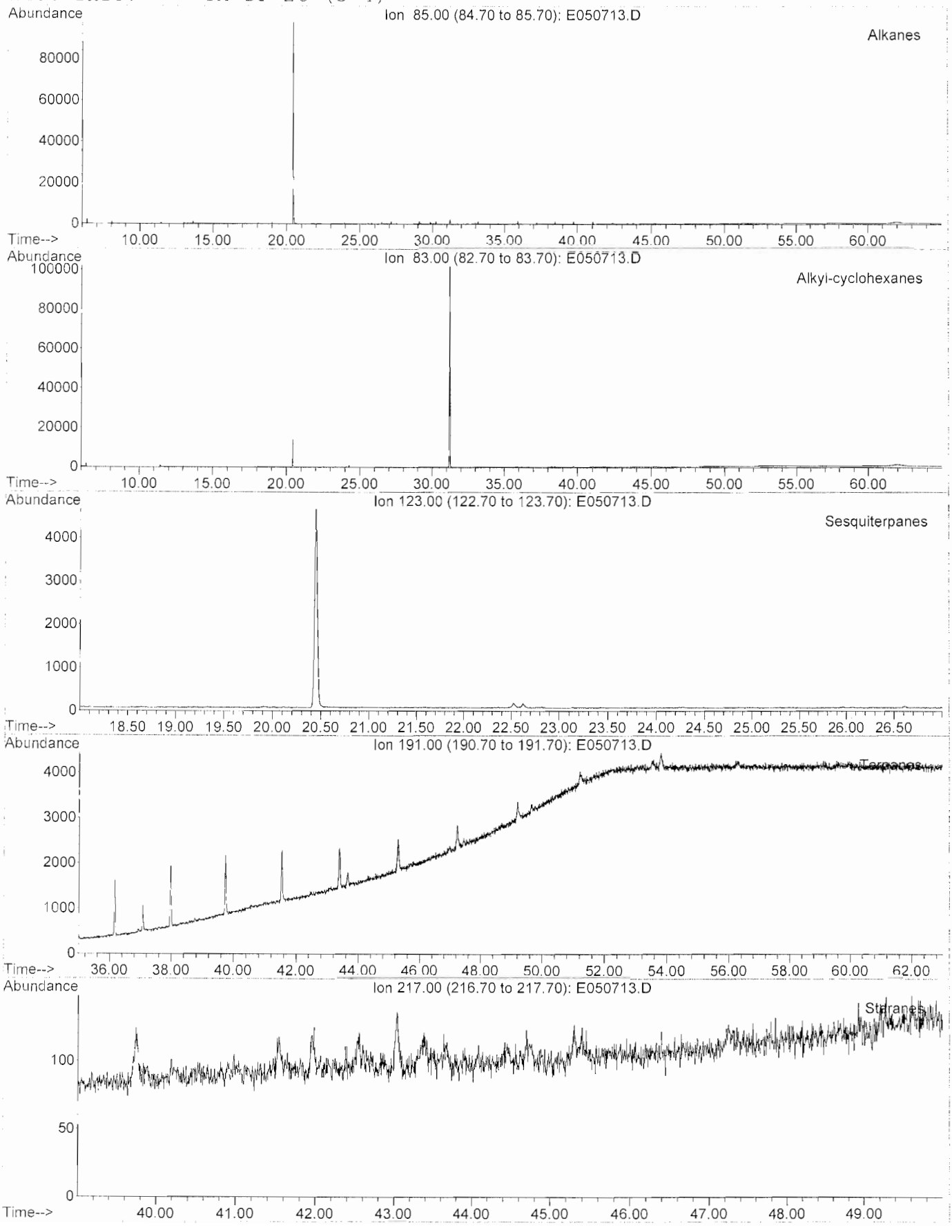
Appendix E

Extracted Ion Current Profiles (EICPs)

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

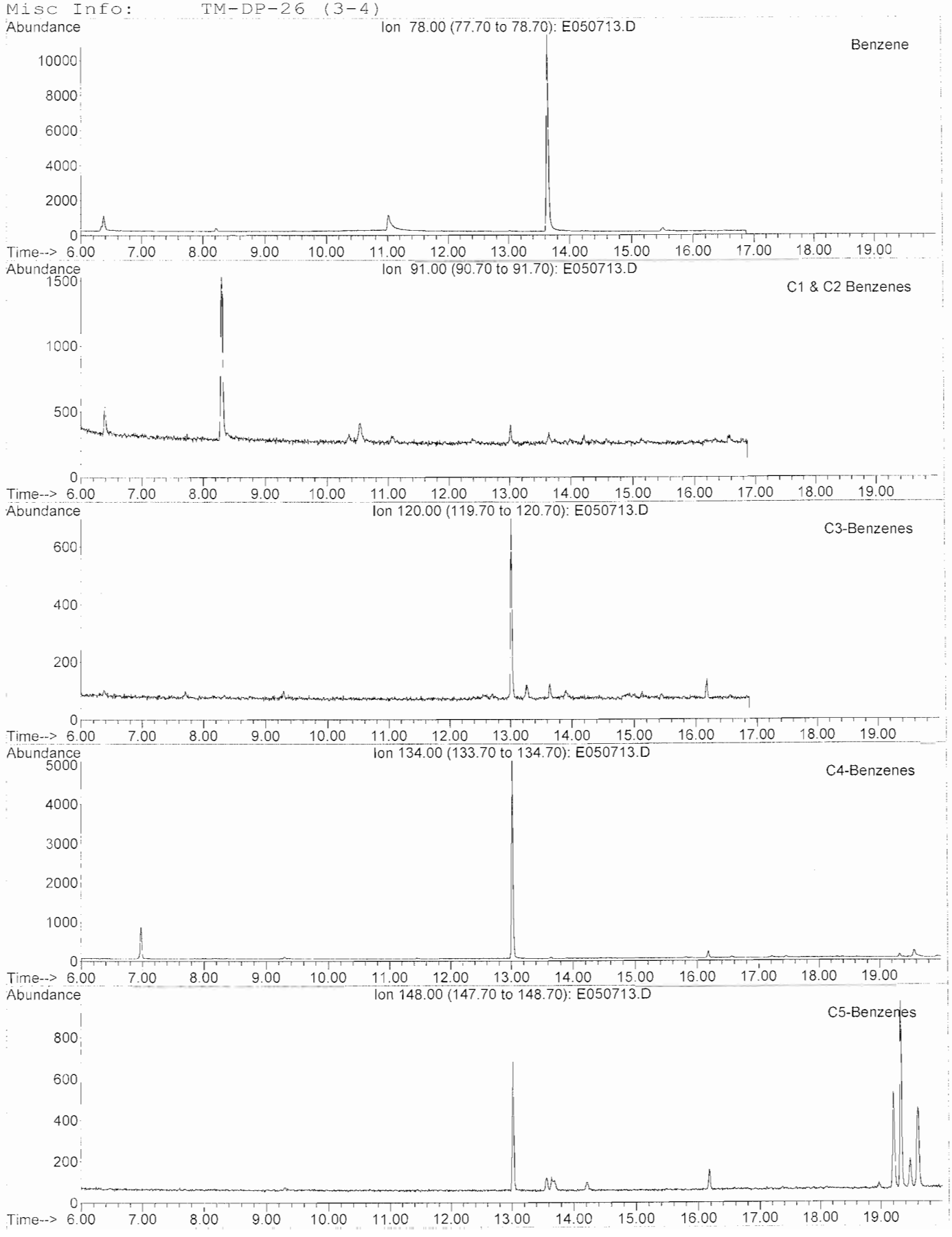
File: J:\1\DATA\E100507\E050713.D
Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

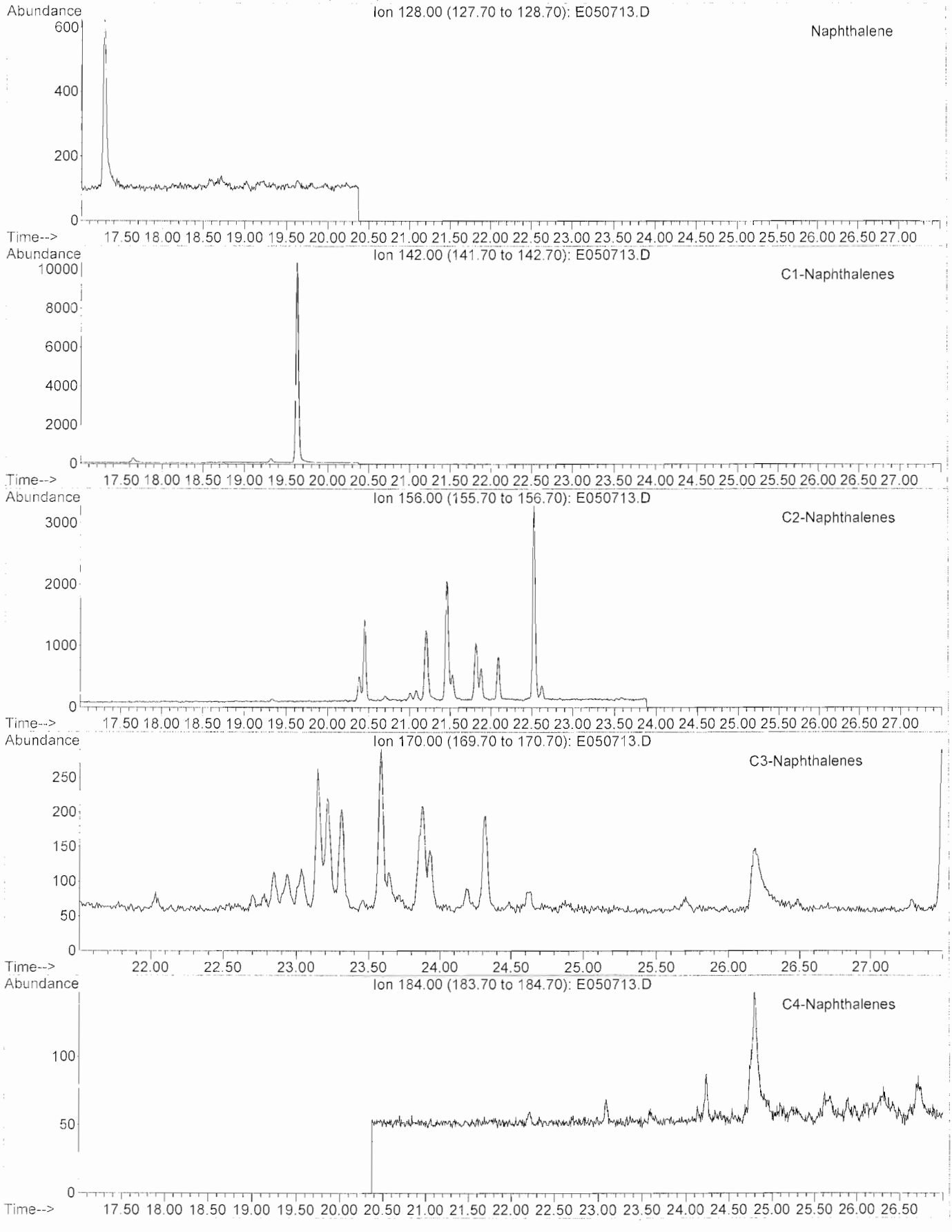
File: J:\1\DATA\E100507\E050713.D
Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

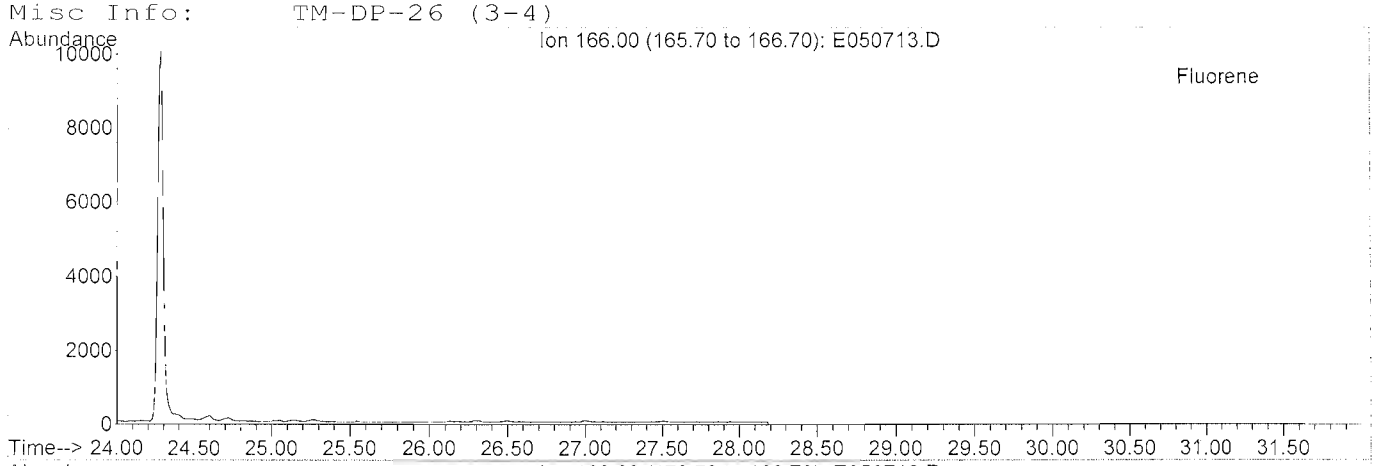
File: J:\1\DATA\E100507\E050713.D
Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)

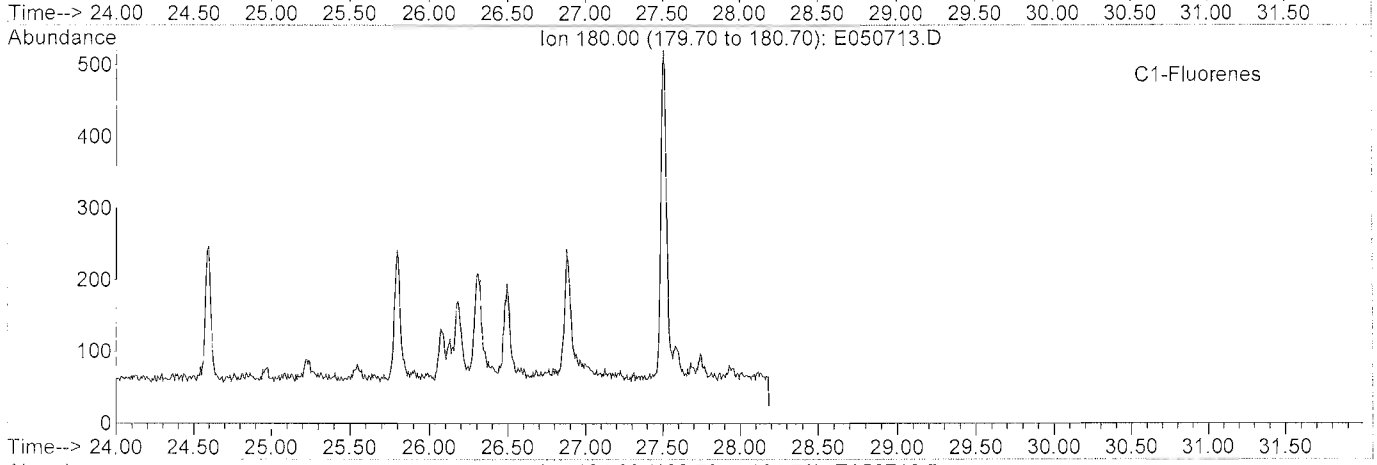


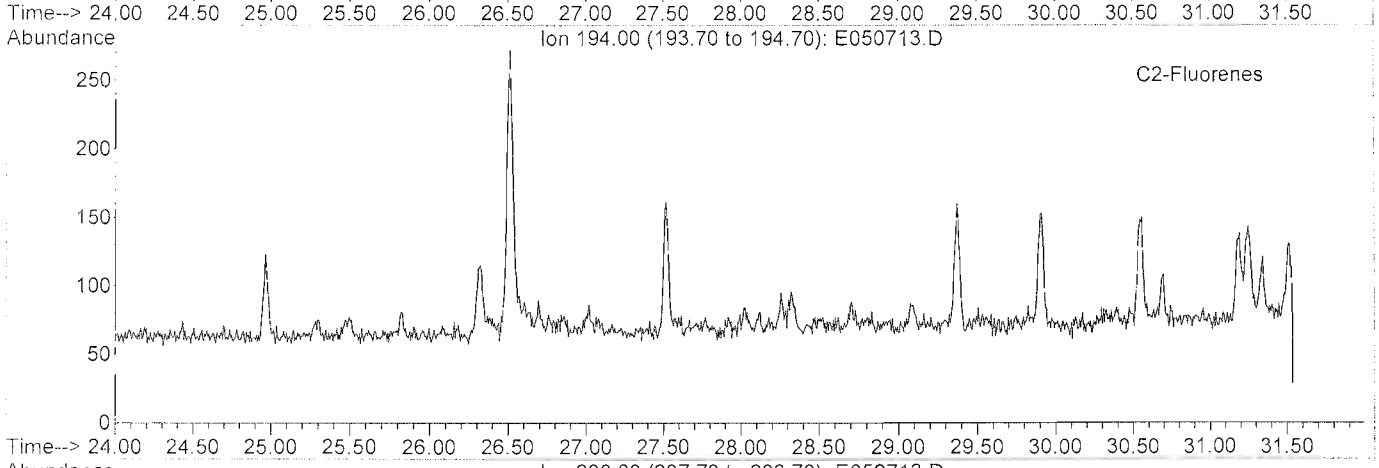
META Environmental, Inc.

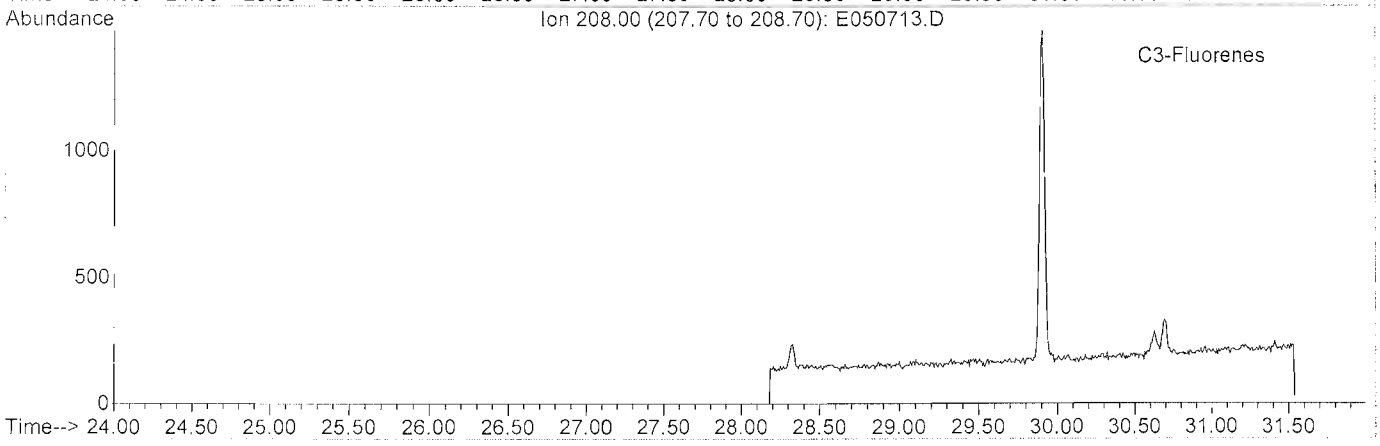
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E100507\E050713.D
Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)





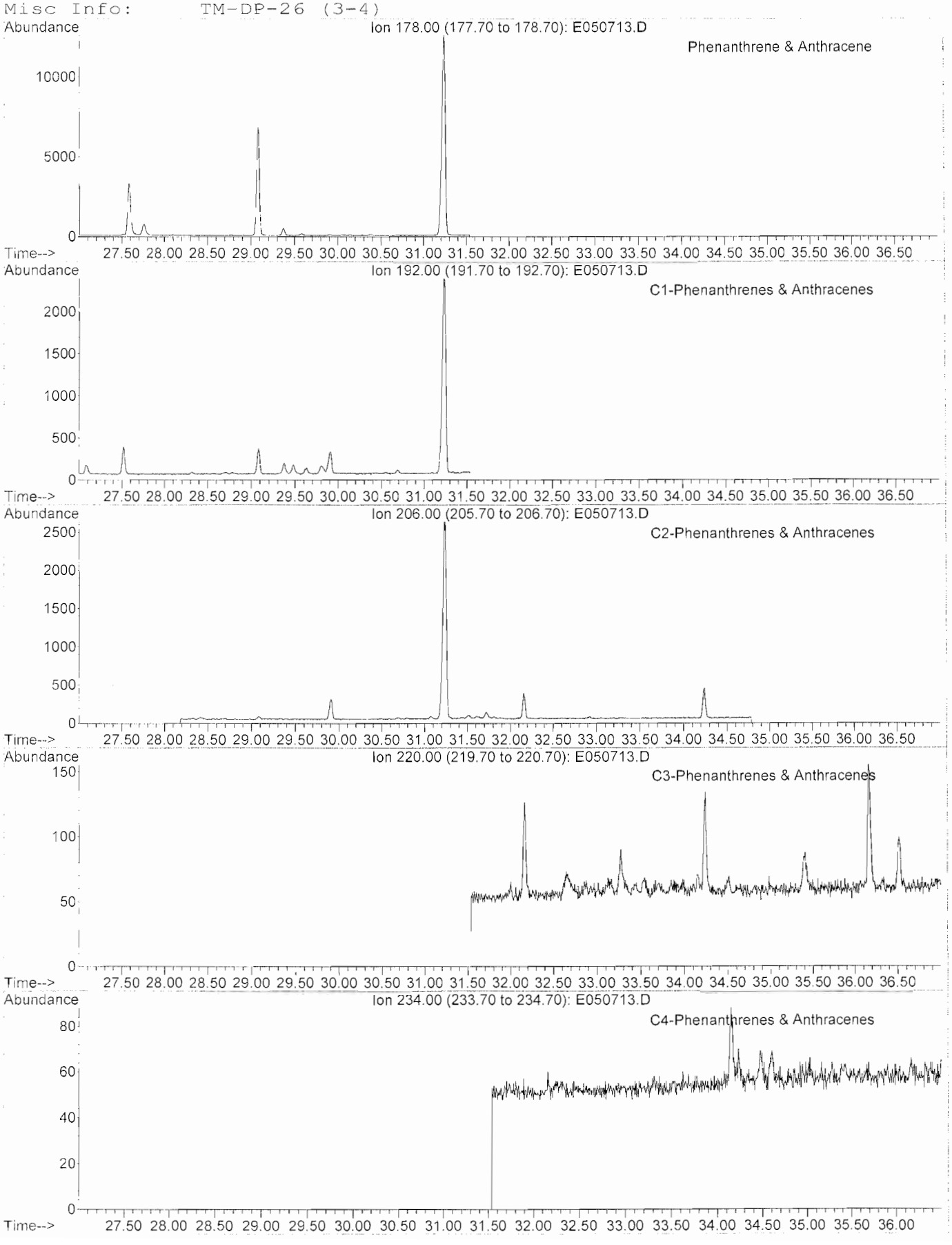




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

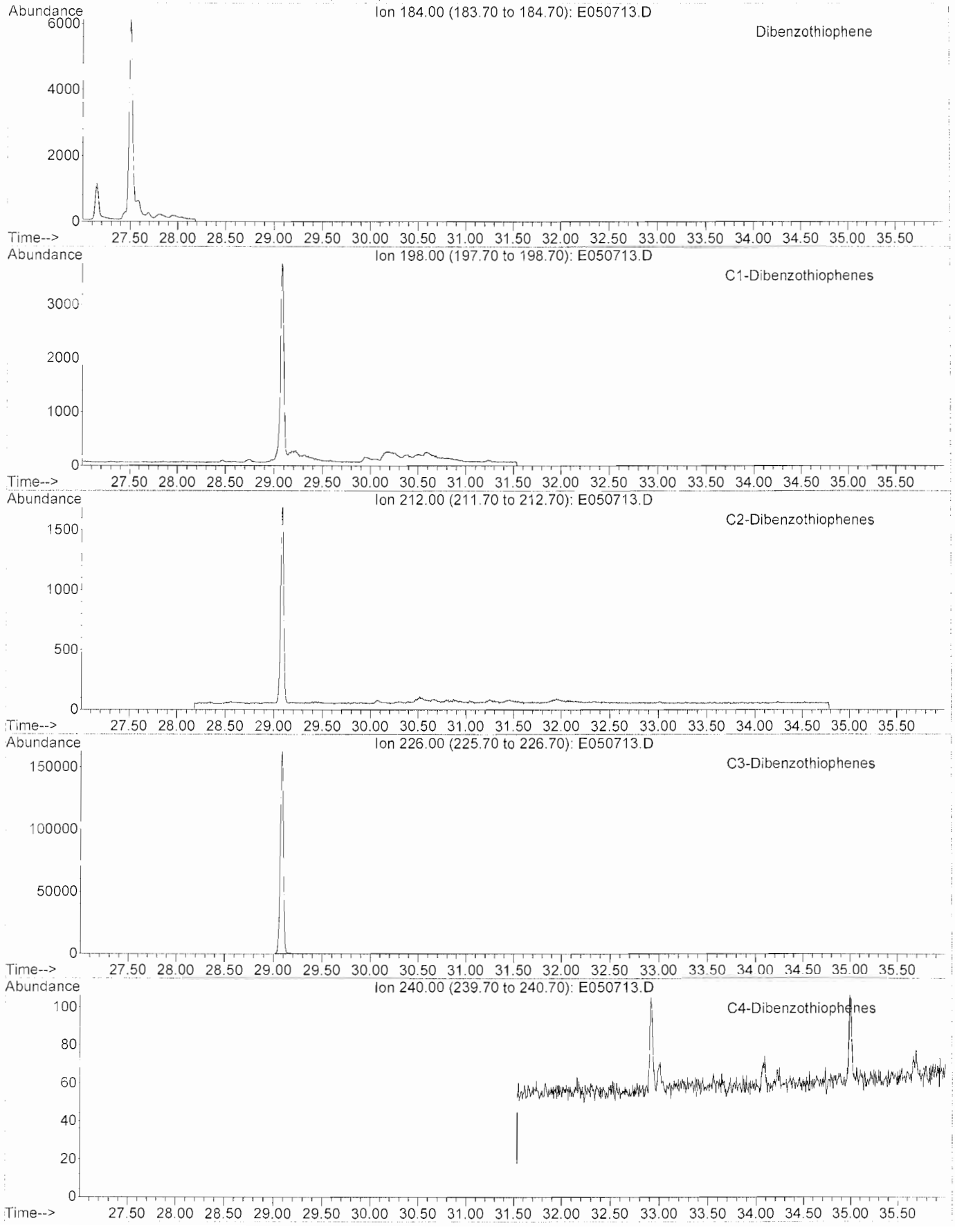
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Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

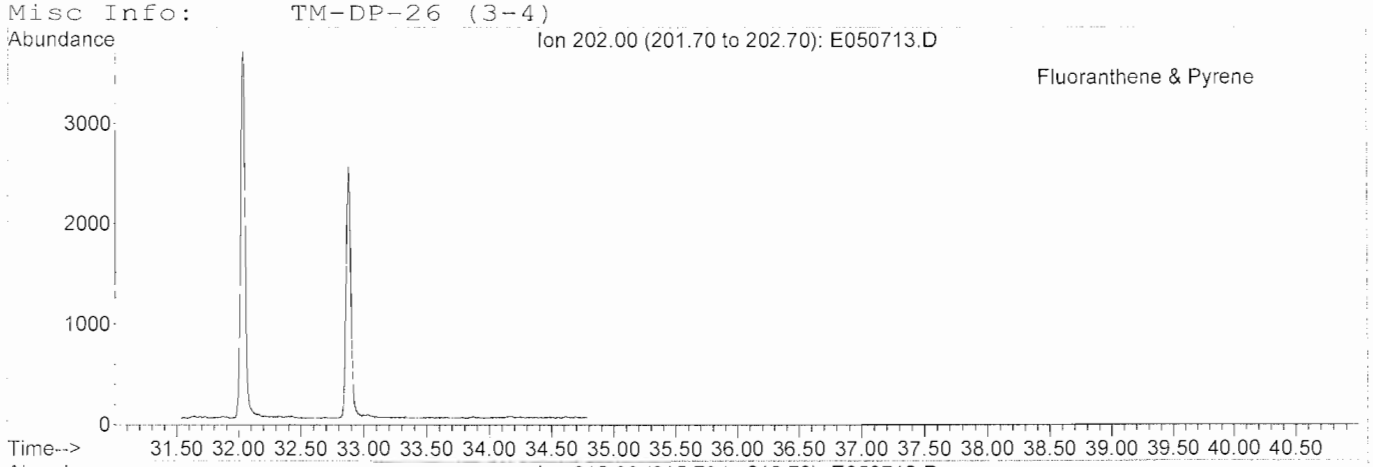
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Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)

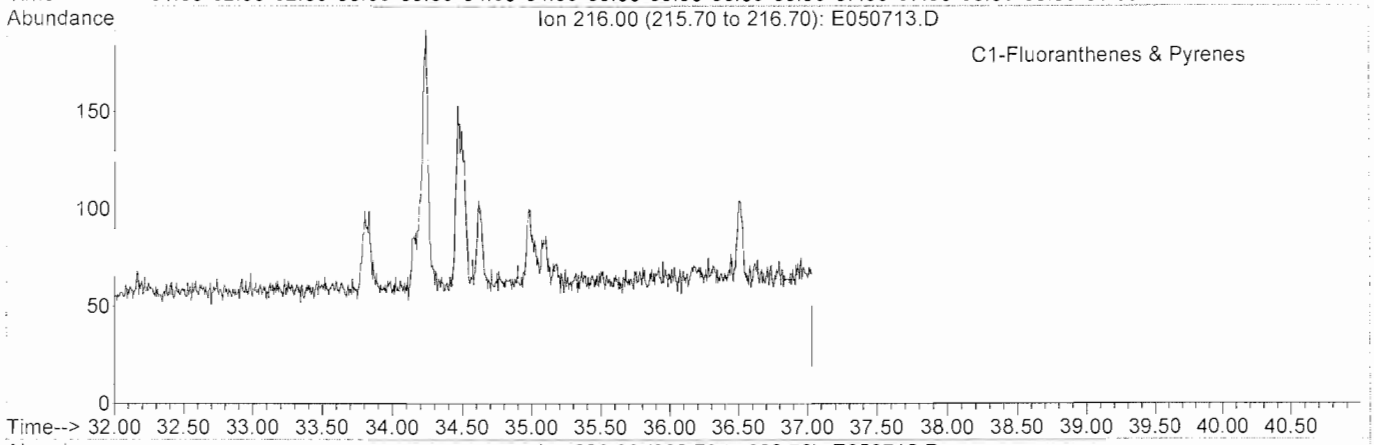


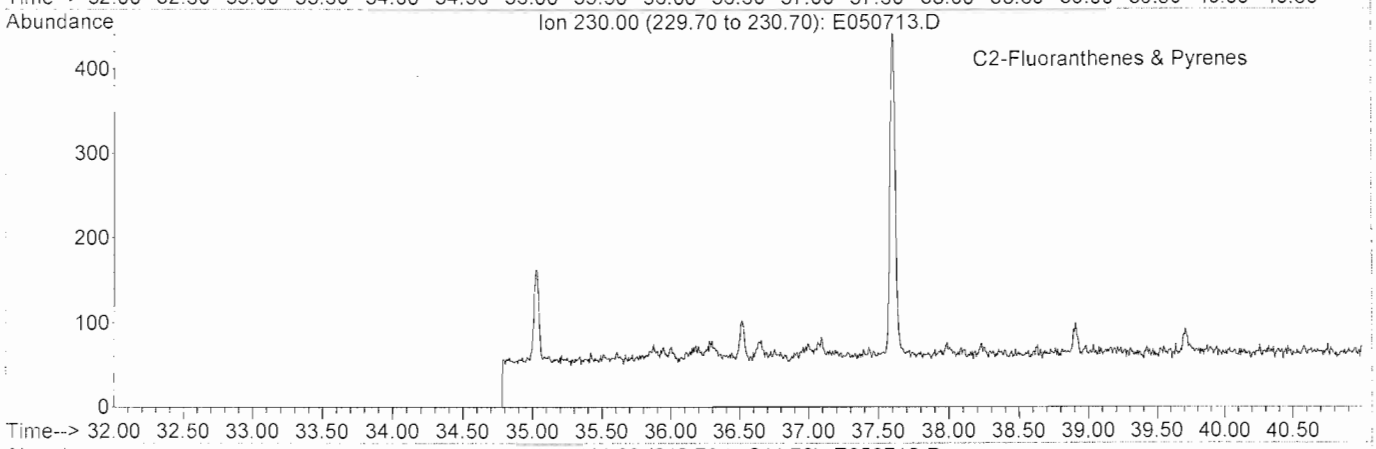
META Environmental, Inc.

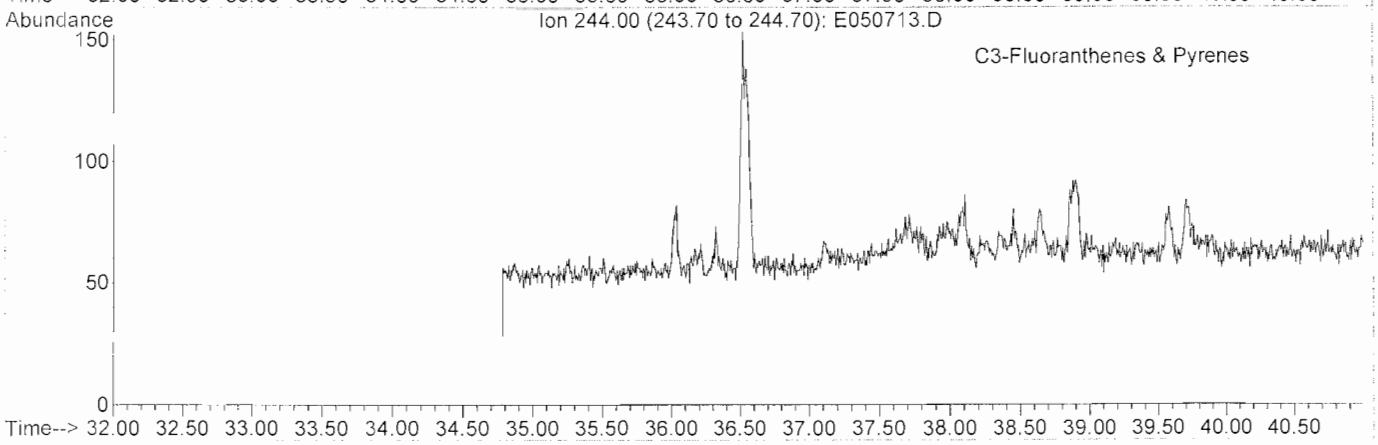
GC/MS EXTRACTED ION CHROMATOGRAM

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Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)





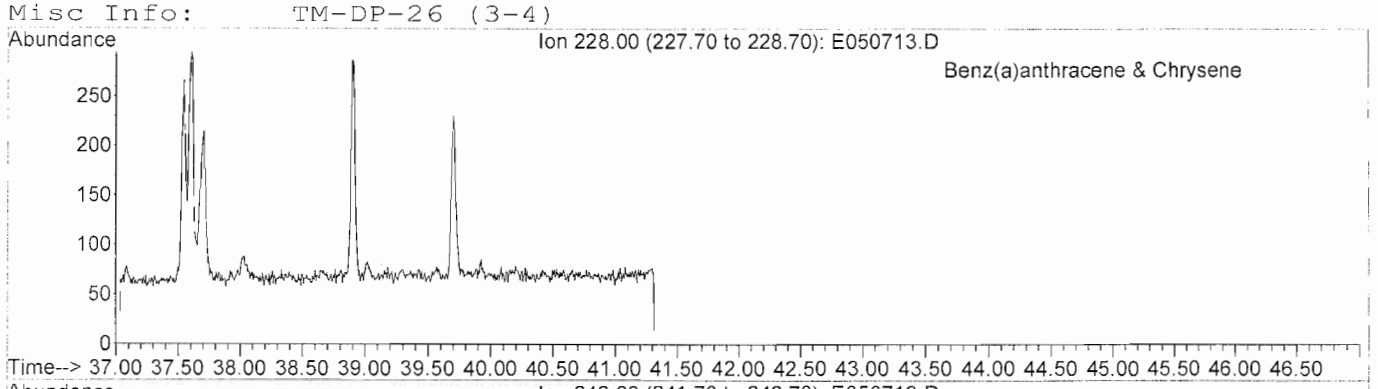


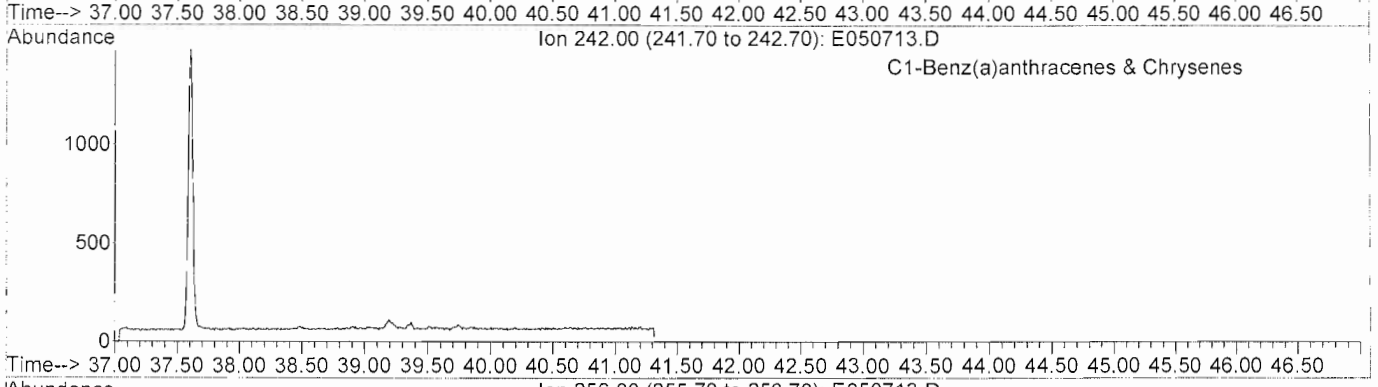


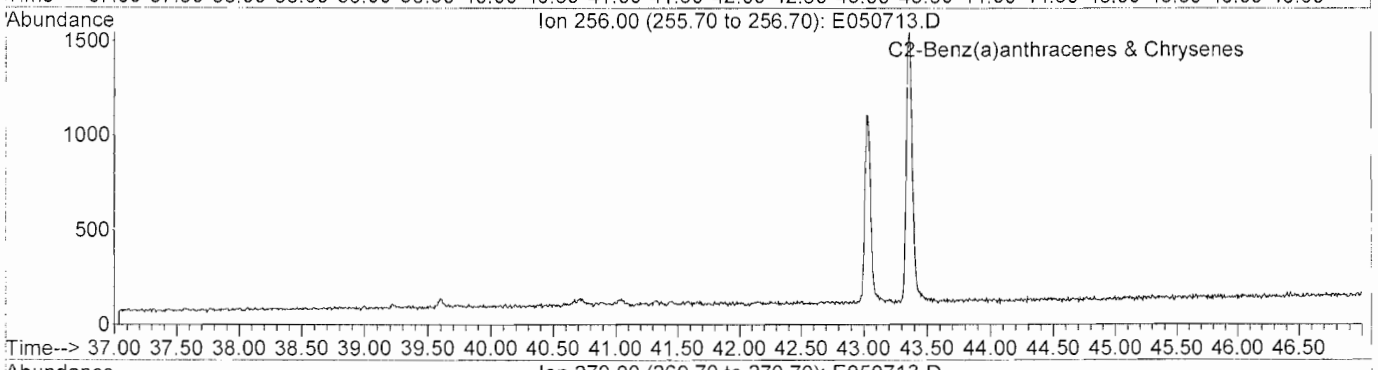
META Environmental, Inc.

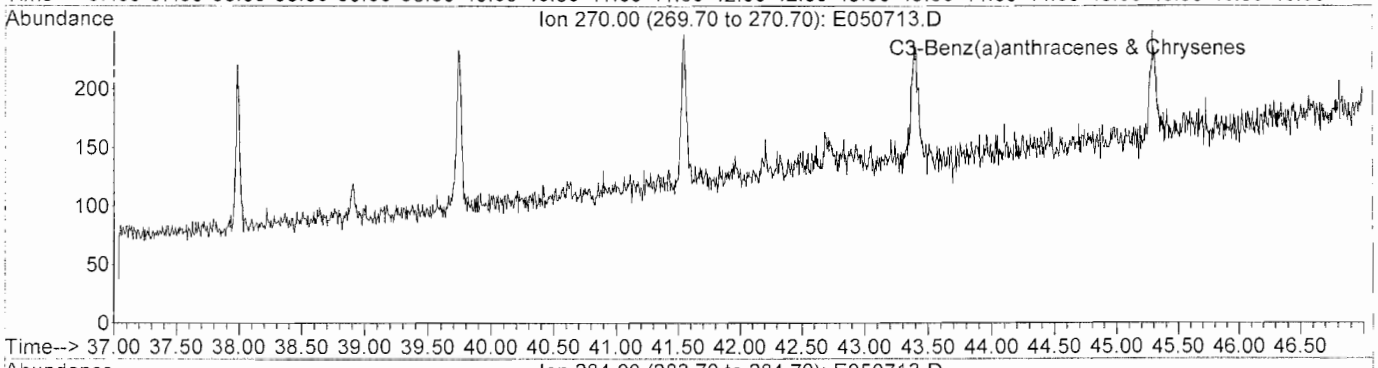
GC/MS EXTRACTED ION CHROMATOGRAM

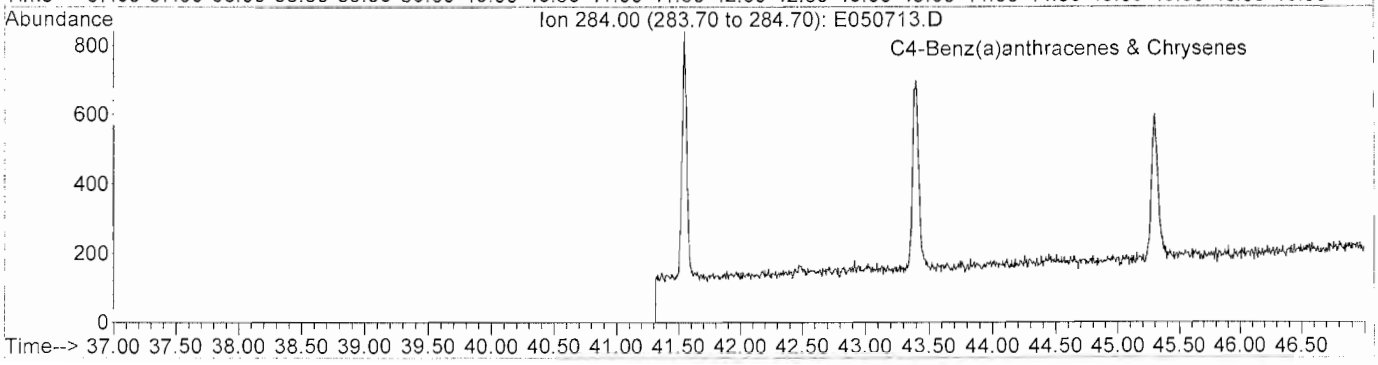
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Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)







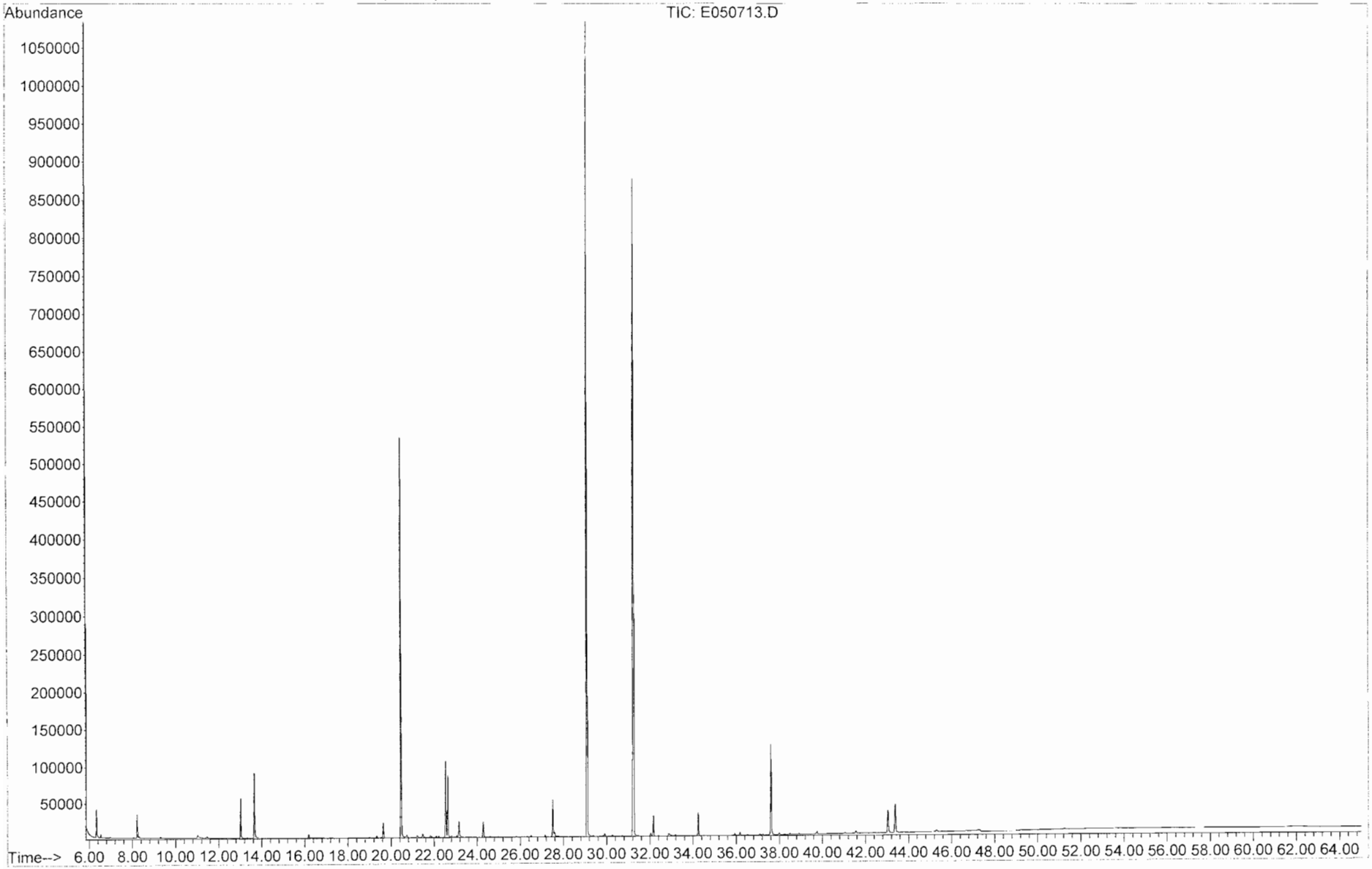




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GC/MS TOTAL ION CHROMATOGRAM

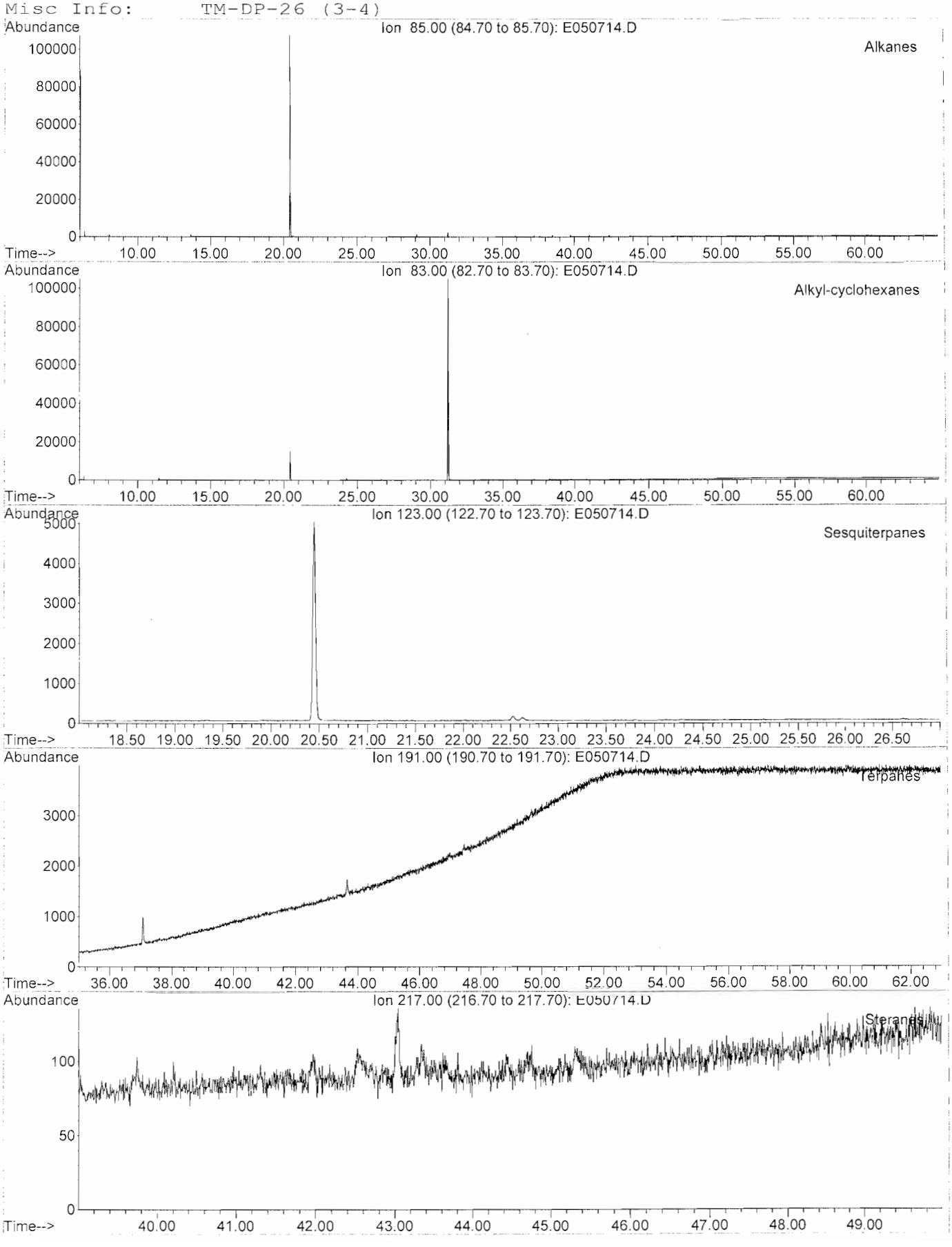
File: J:\1\DATA\E100507\E050713.D
Date Acquired: 8 May 2010 4:10 am
Sample Name: CH100430-07
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

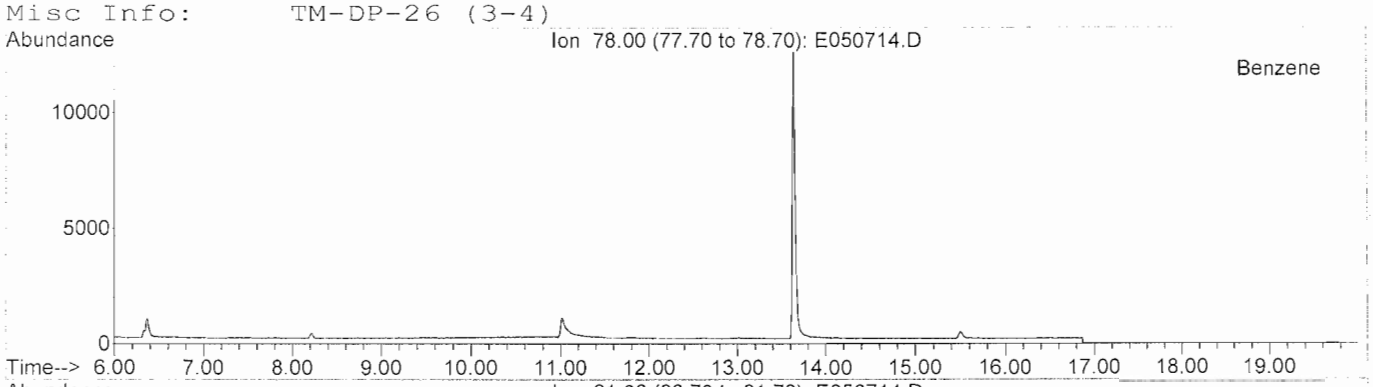
File: J:\1\DATA\E100507\E050714.D
Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)

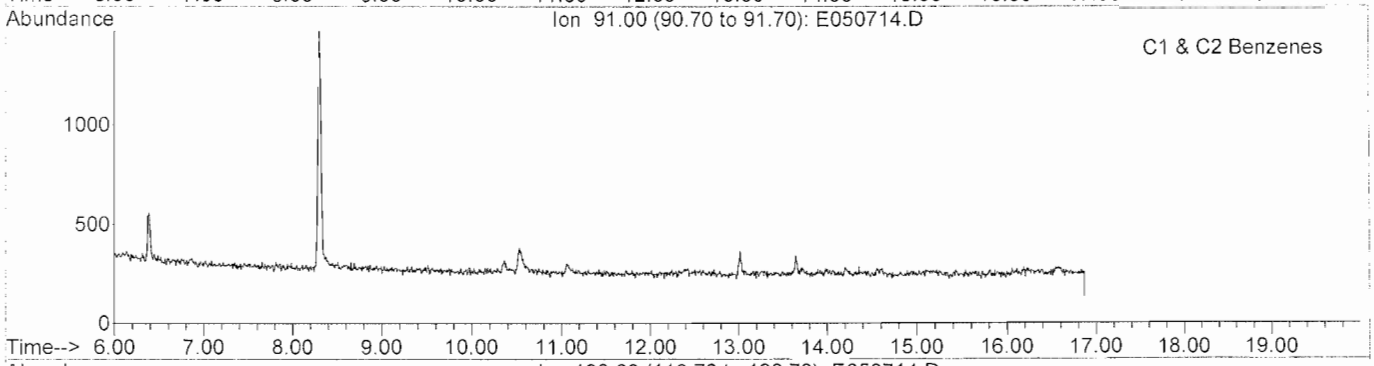


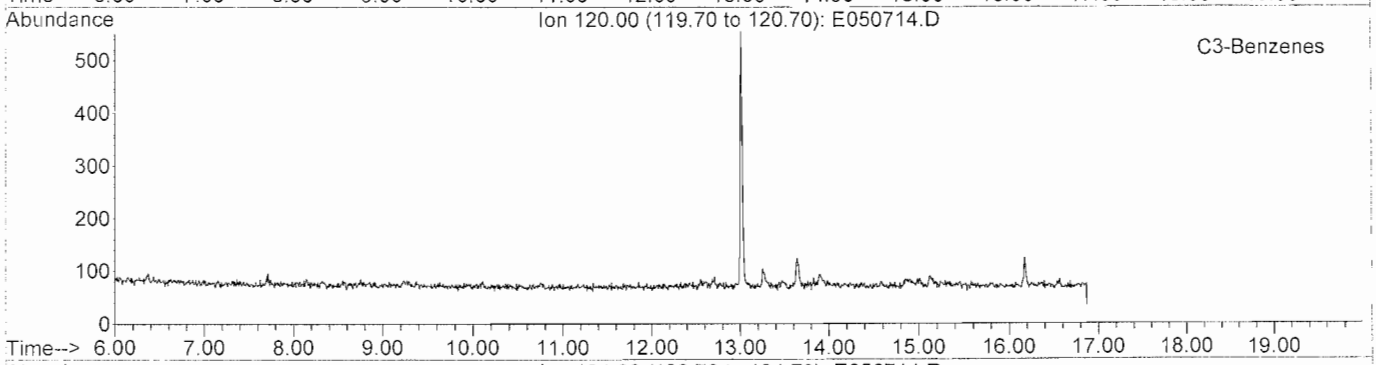
META Environmental, Inc.

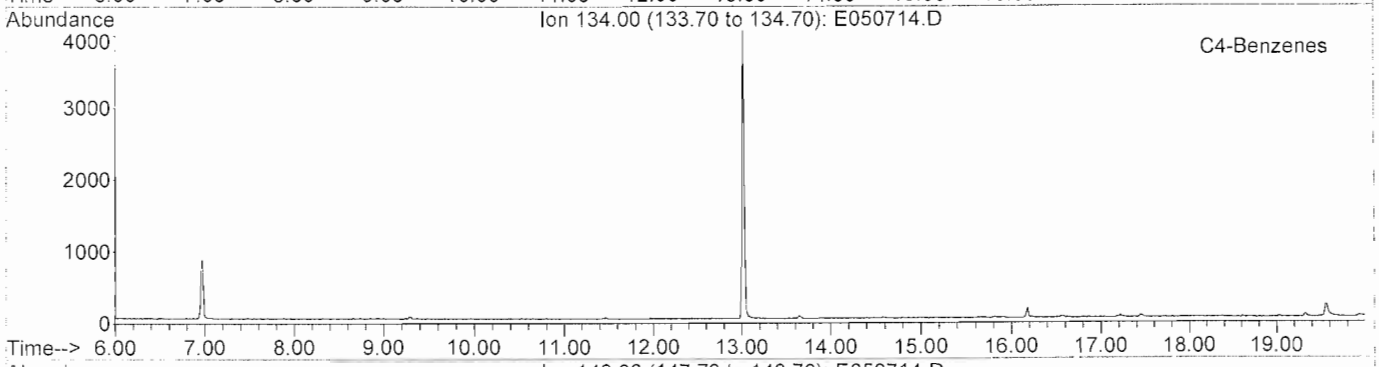
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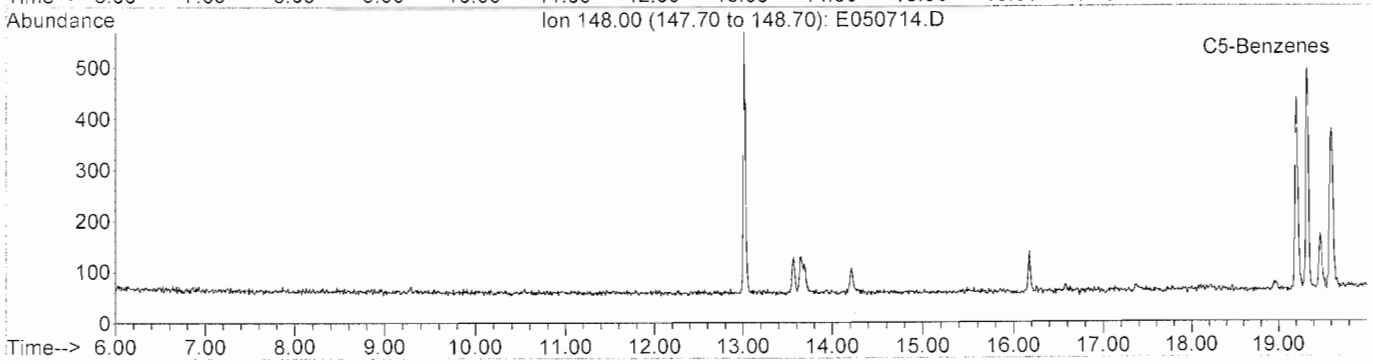
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Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)







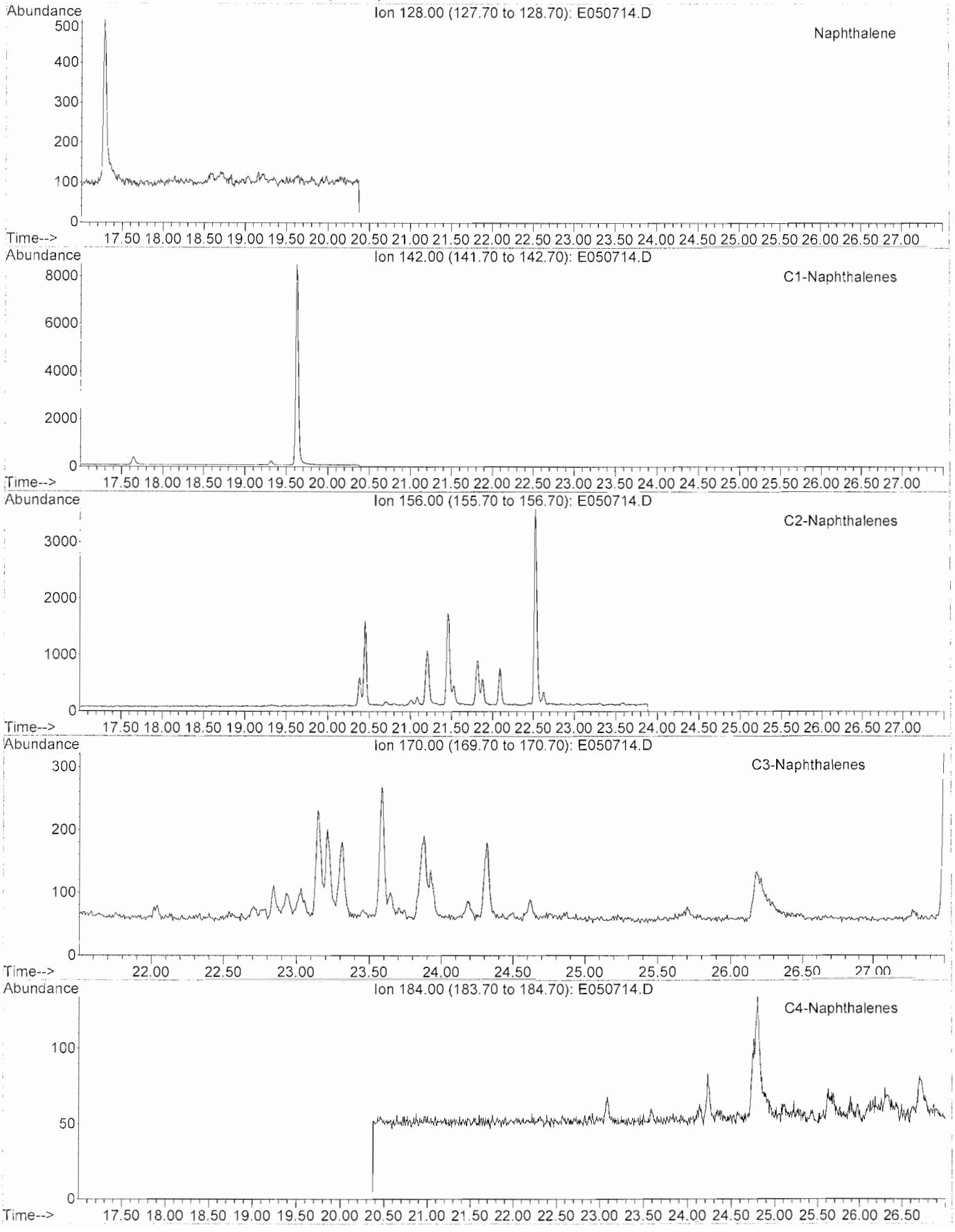




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

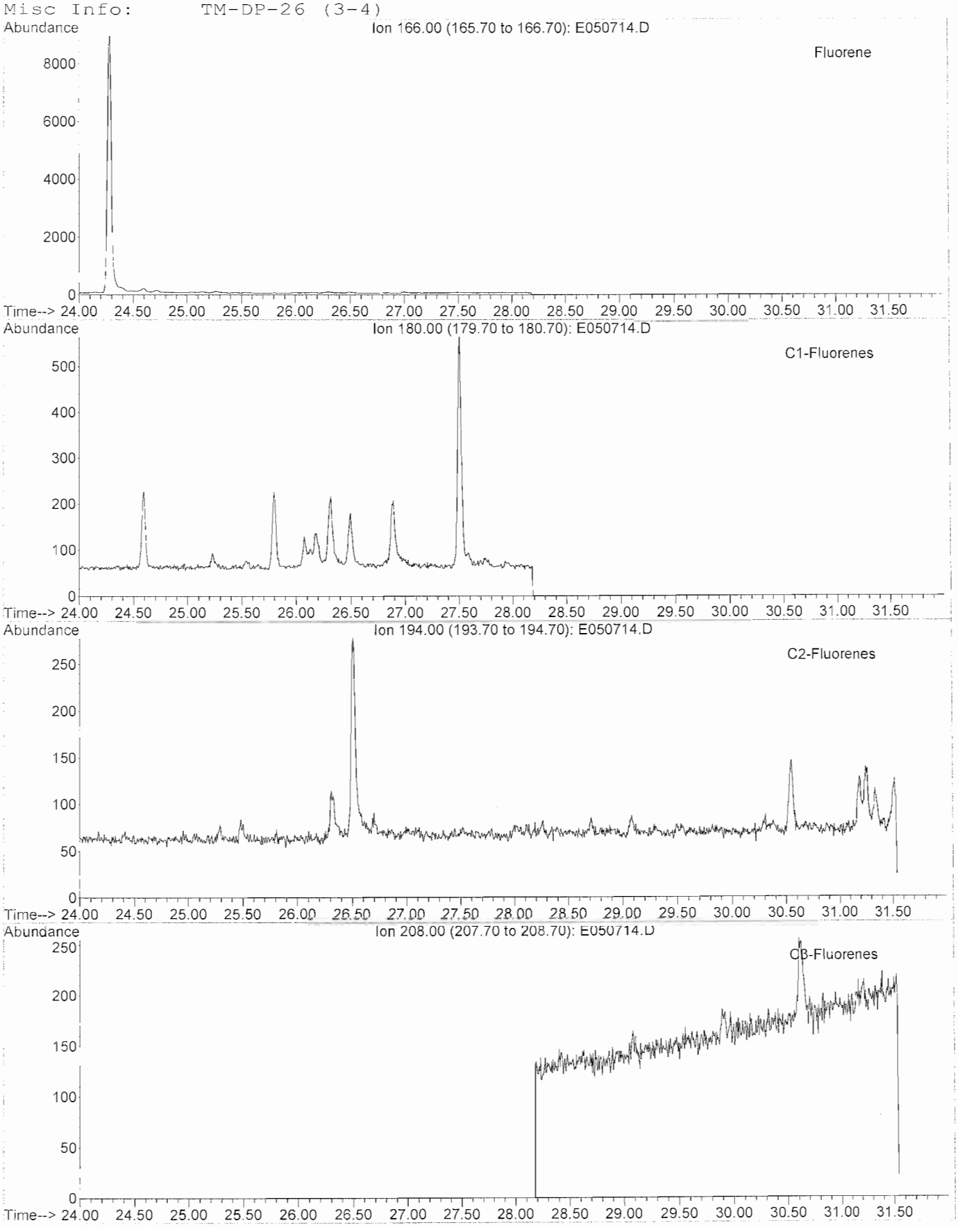
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Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

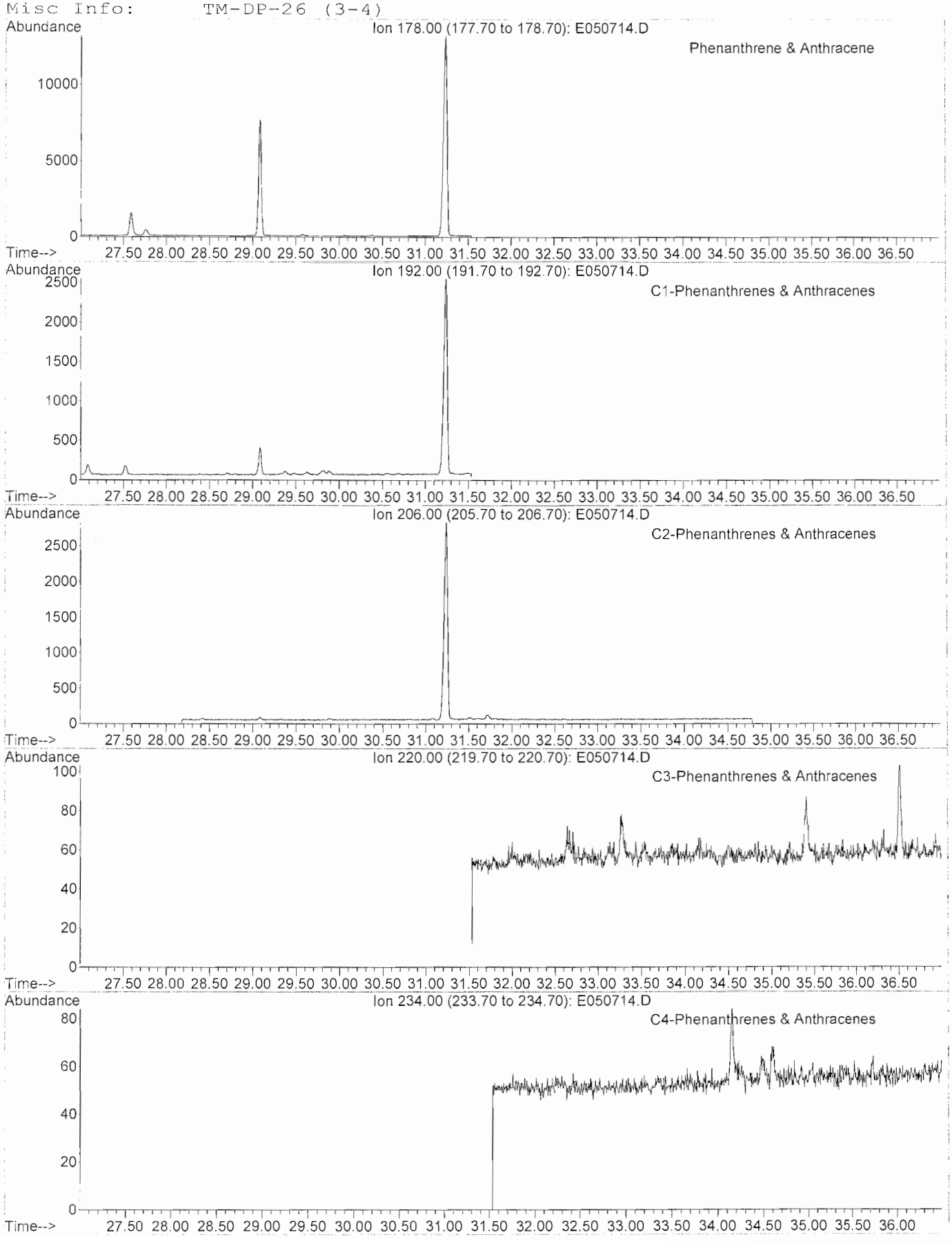
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Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

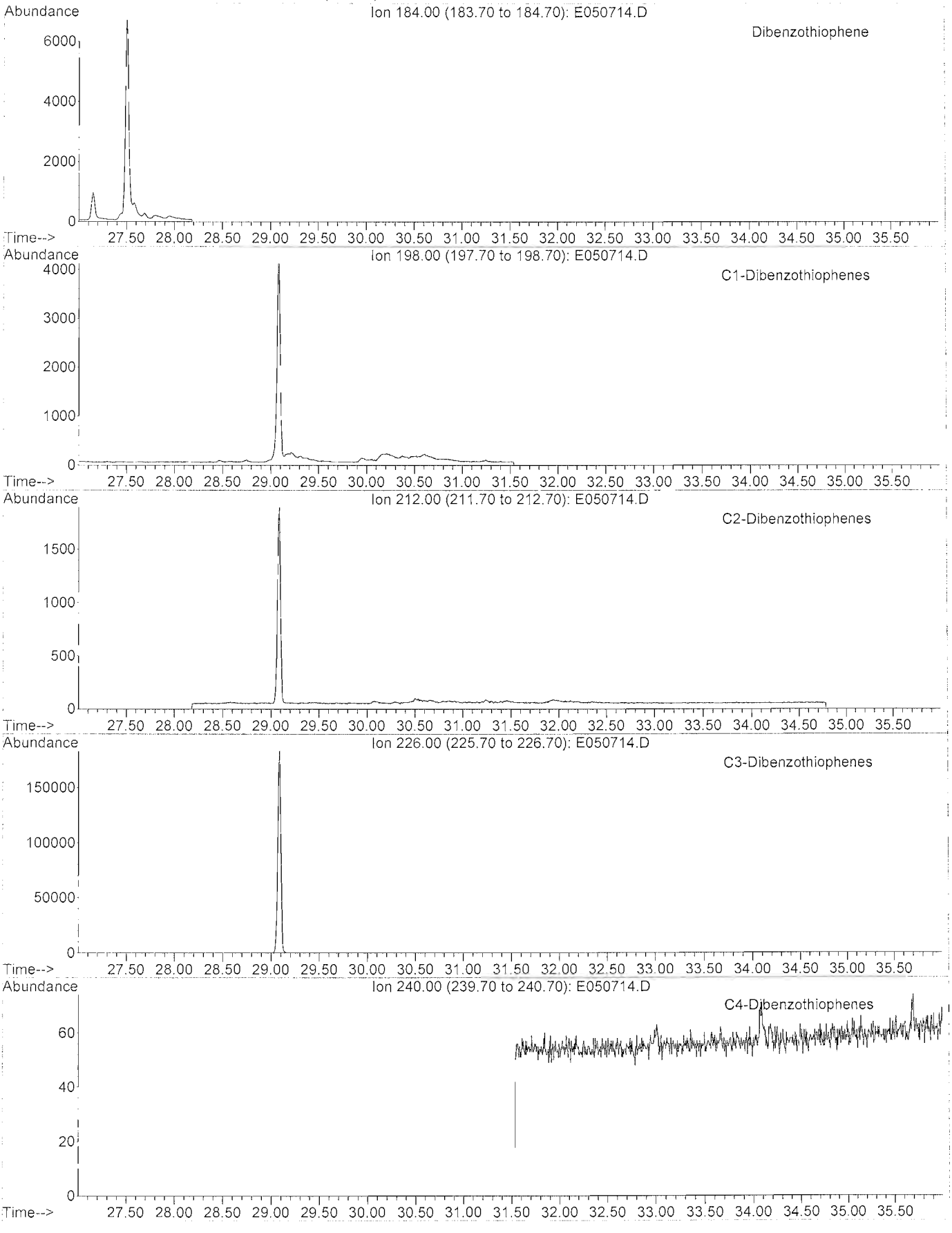
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Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

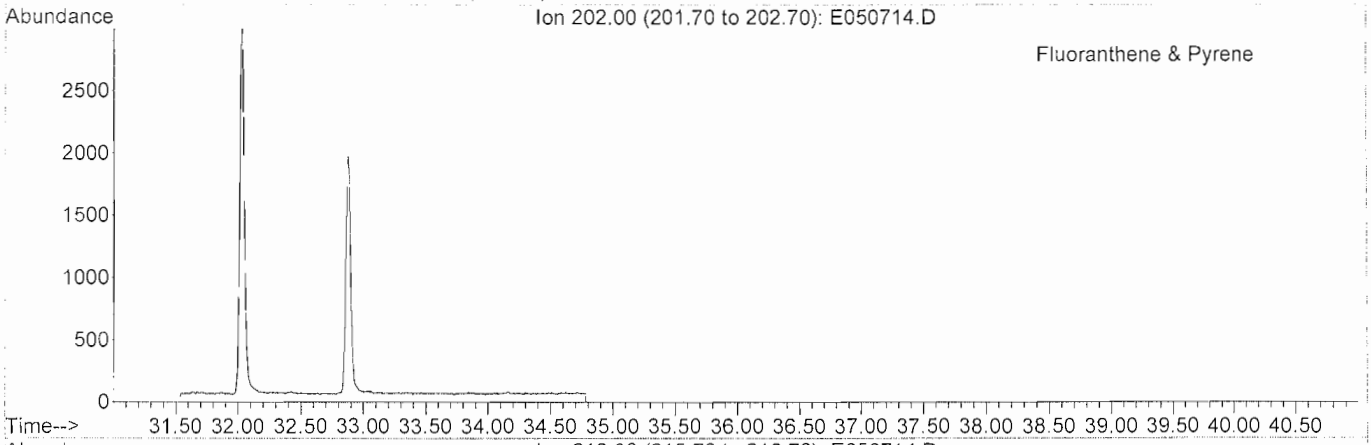
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Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)

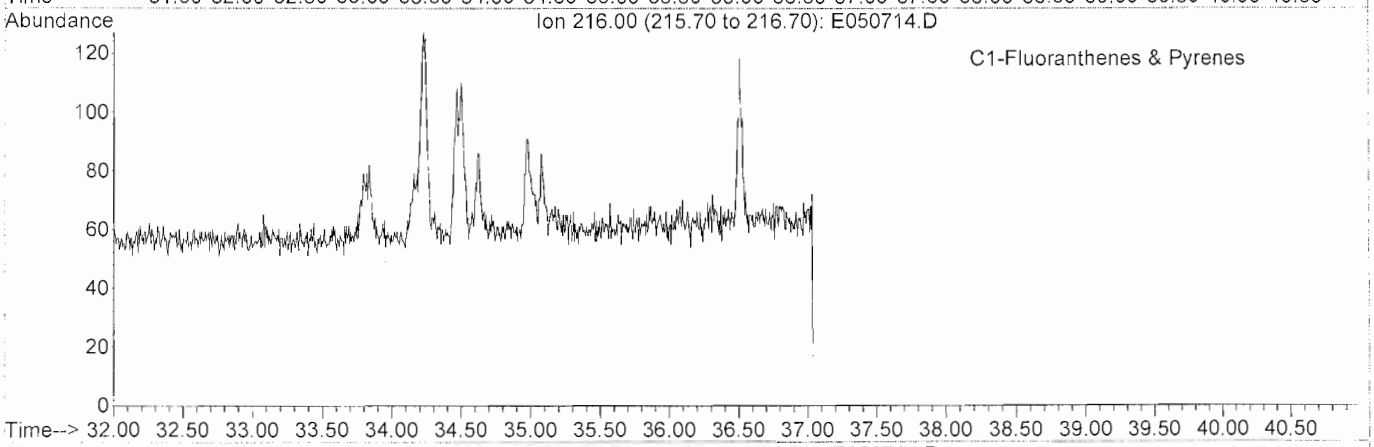


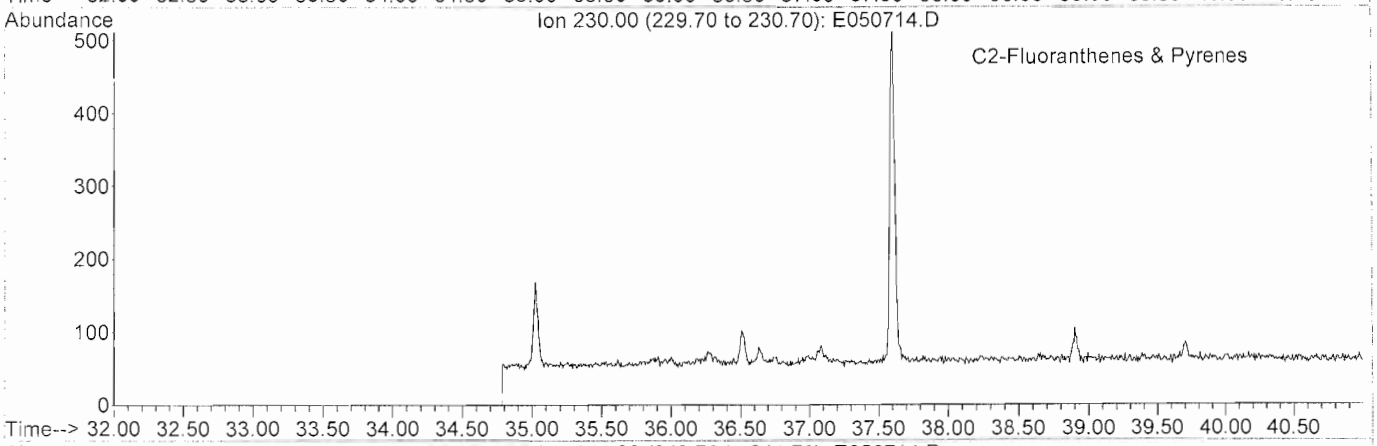
META Environmental, Inc.

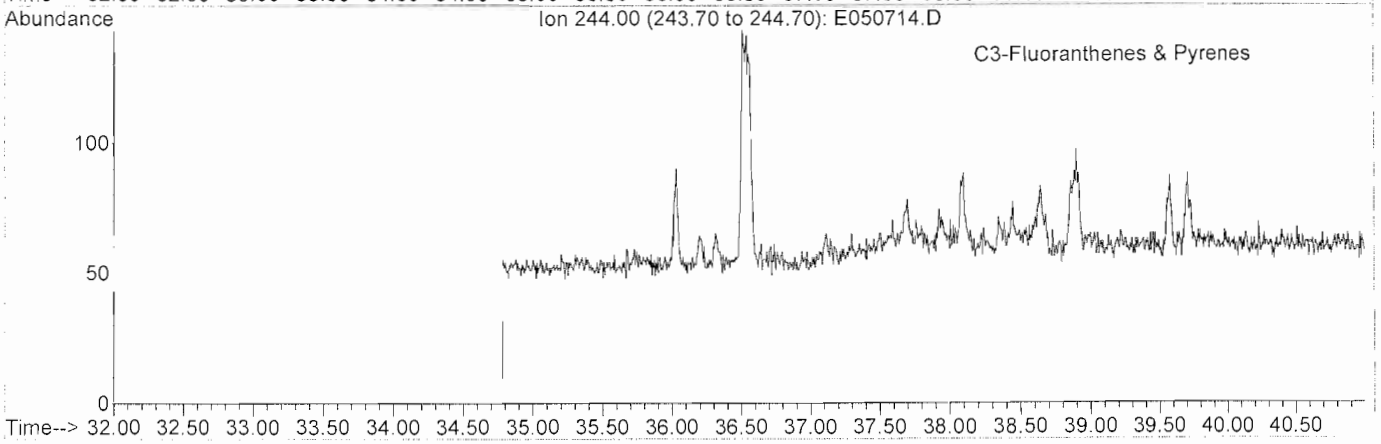
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E100507\E050714.D
Date Acquired: & May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)





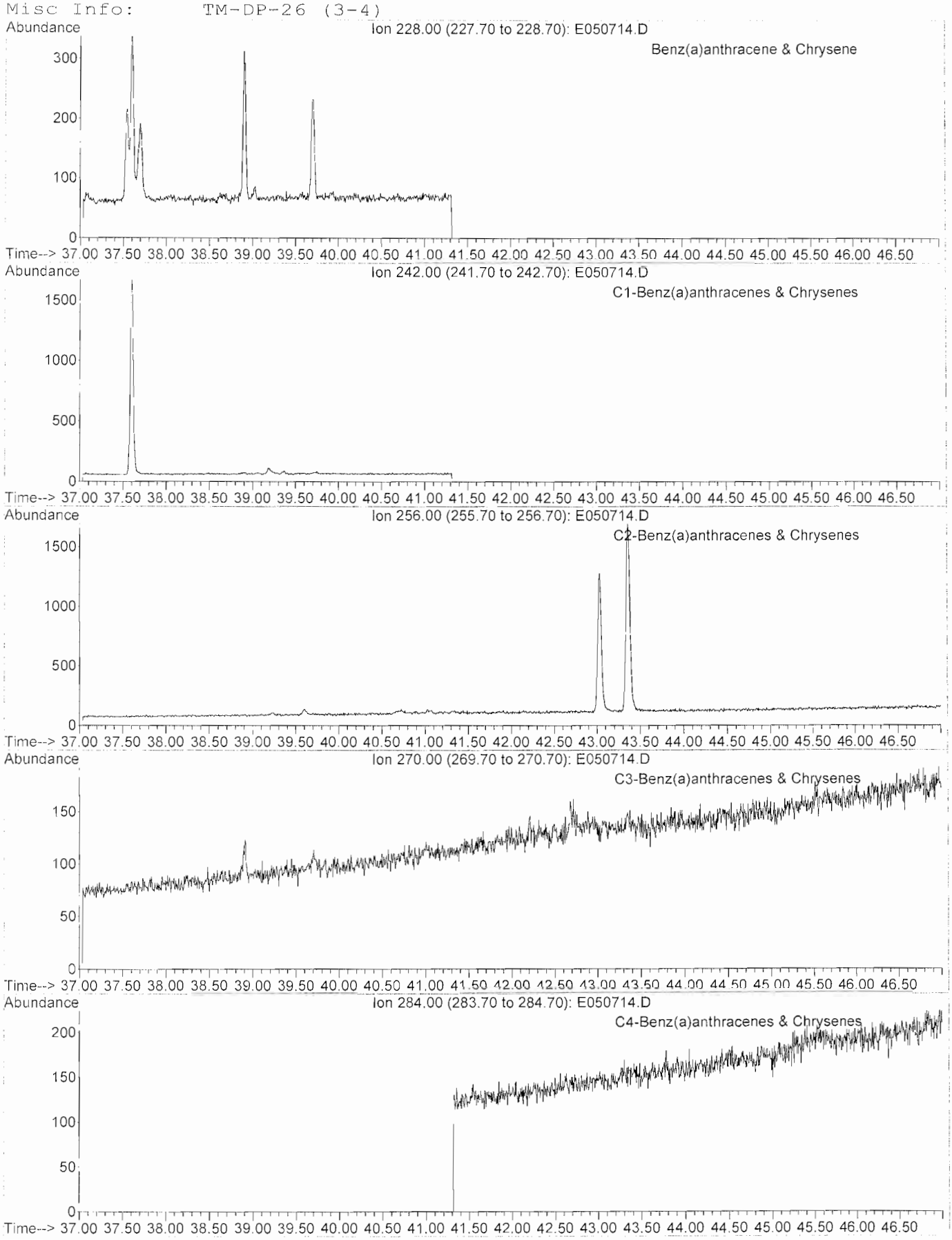




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

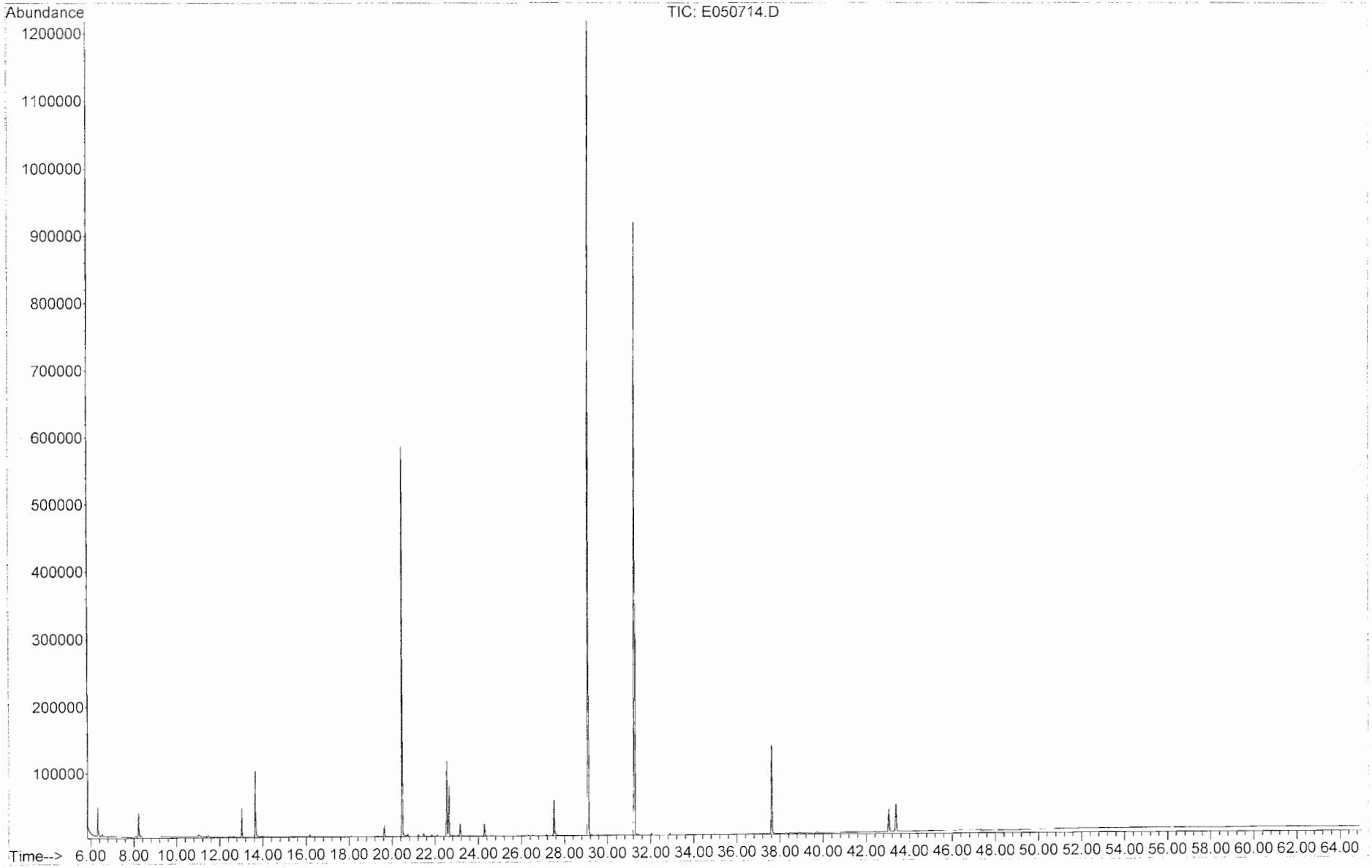
File: J:\1\DATA\E100507\E050714.D
Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

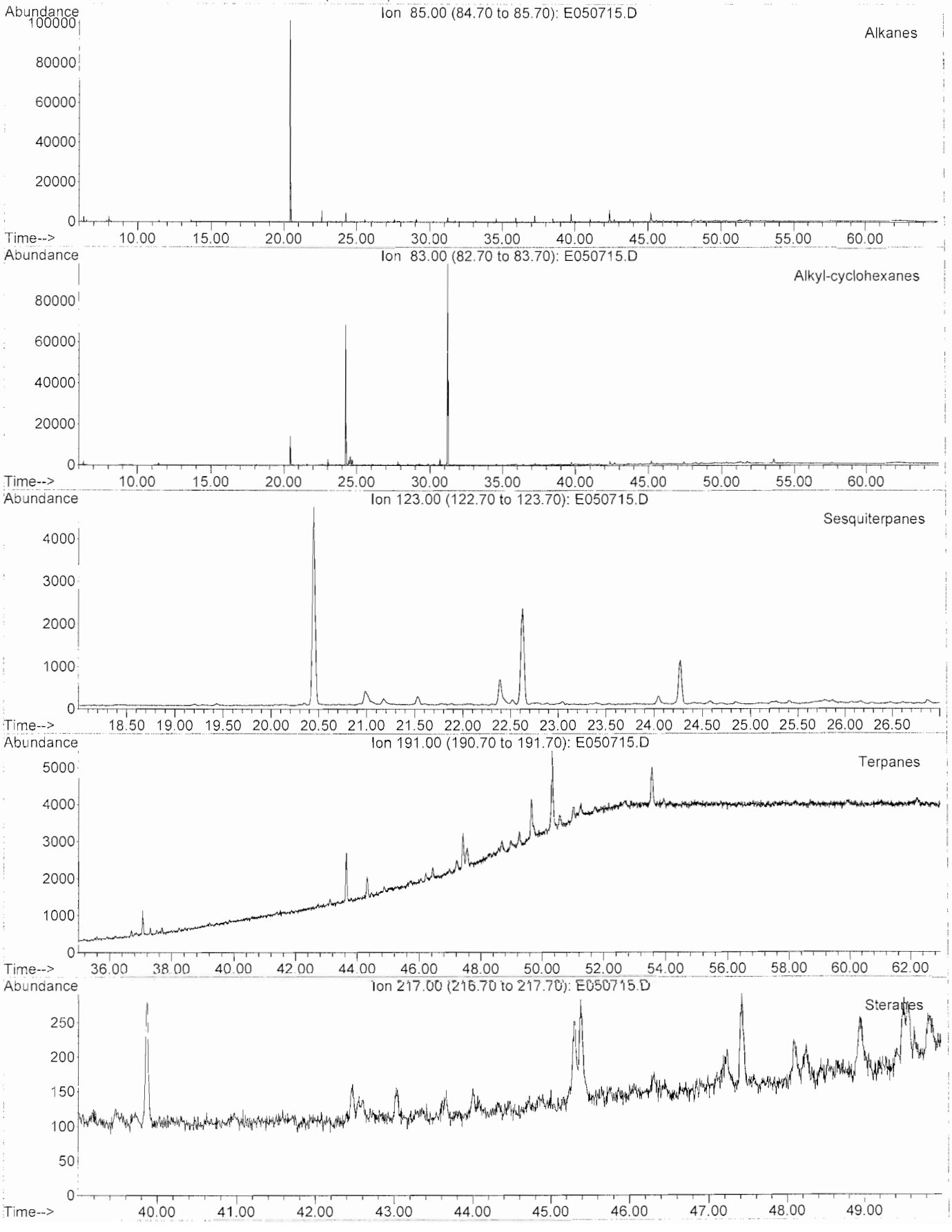
File: J:\1\DATA\E100507\E050714.D
Date Acquired: 8 May 2010 5:27 am
Sample Name: CH100430-07DUP
Misc Info: TM-DP-26 (3-4)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

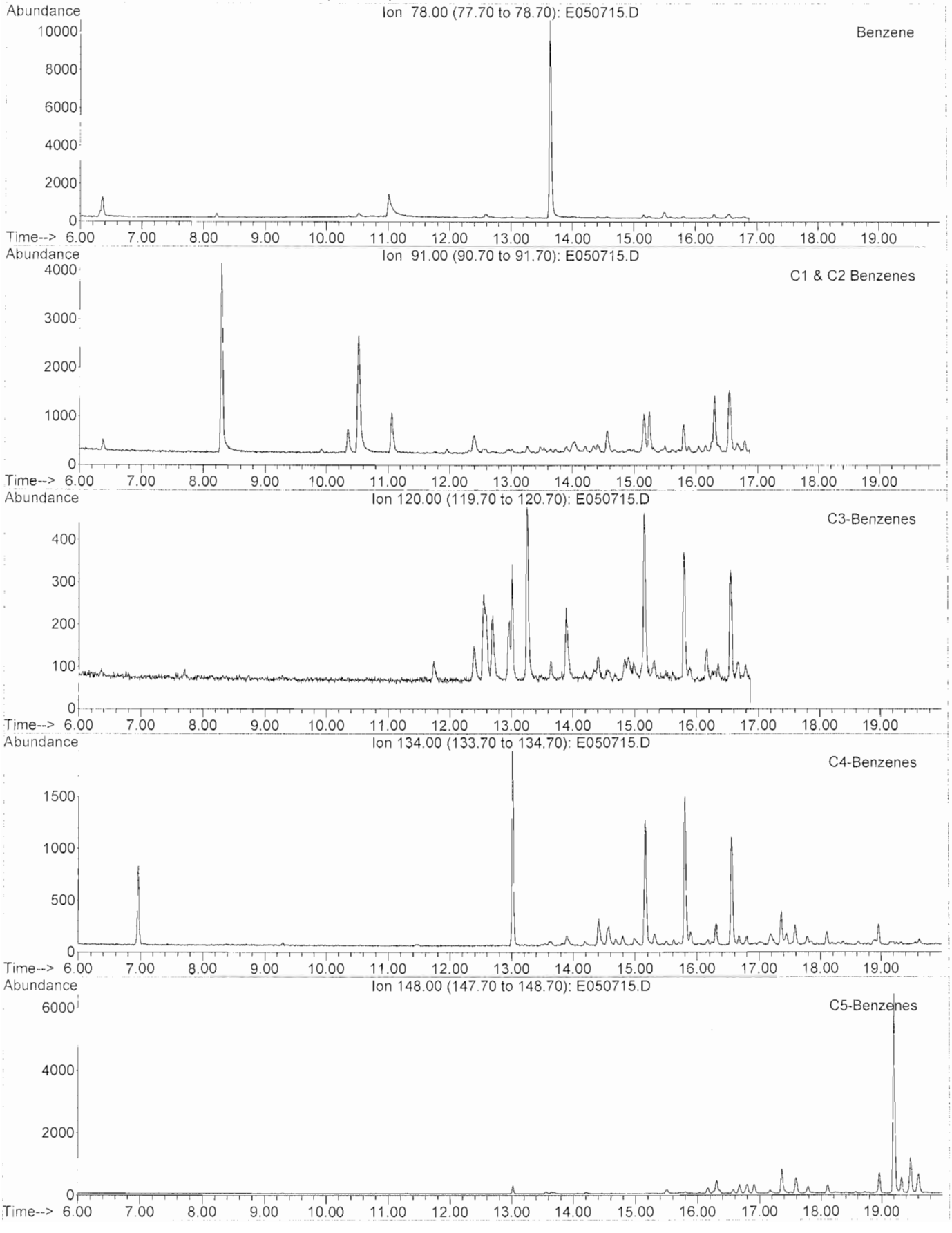
File: J:\1\DATA\E100507\E050715.D
Date Acquired: 8 May 2010 6:44 am
Sample Name: CH100430-08
Misc Info: TM-DP-28 (7-11)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

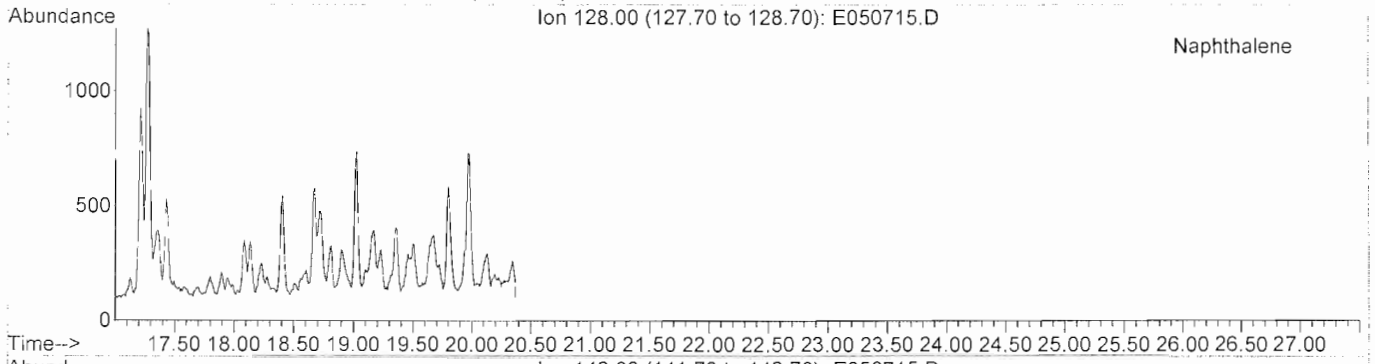
File: J:\1\DATA\E100507\E050715.D
Date Acquired: 8 May 2010 6:44 am
Sample Name: CH100430-08
Misc Info: TM-DP-28 (7-11)

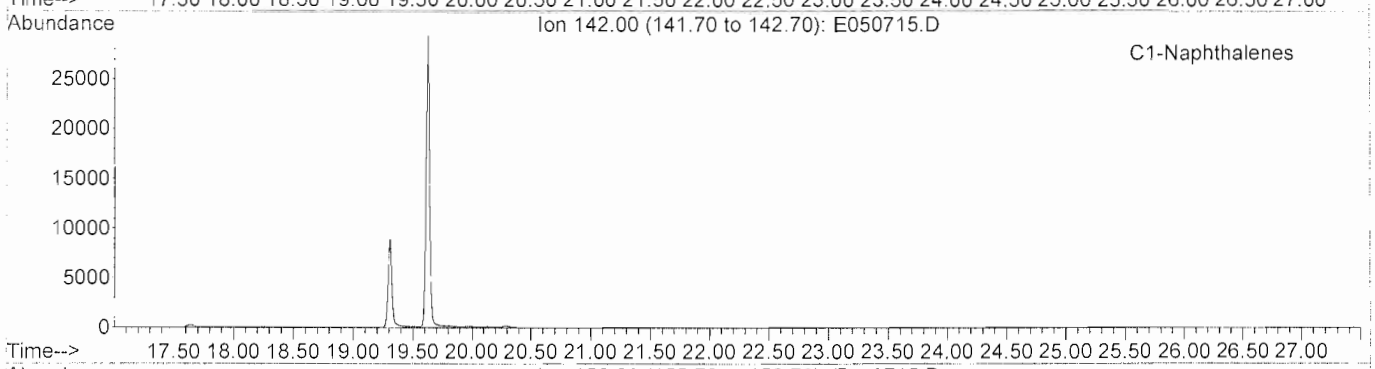


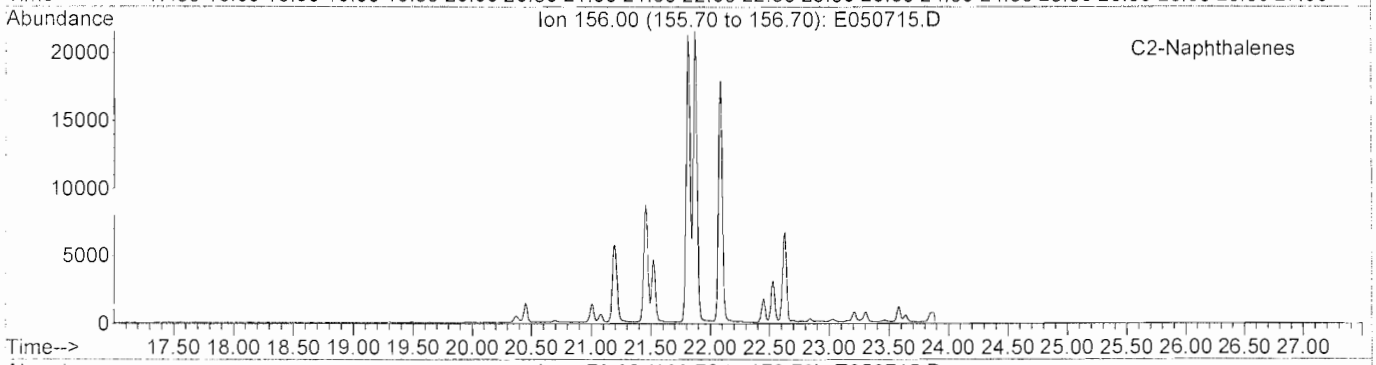
META Environmental, Inc.

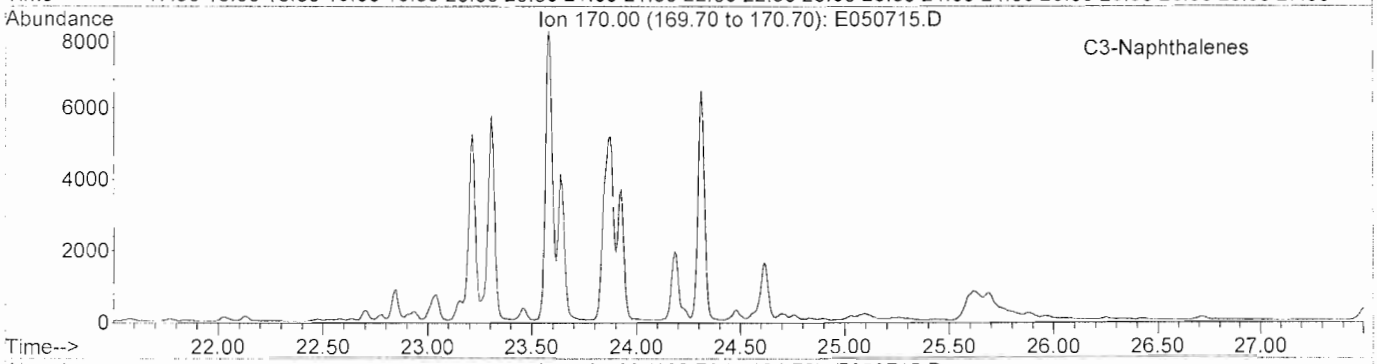
GC/MS EXTRACTED ION CHROMATOGRAM

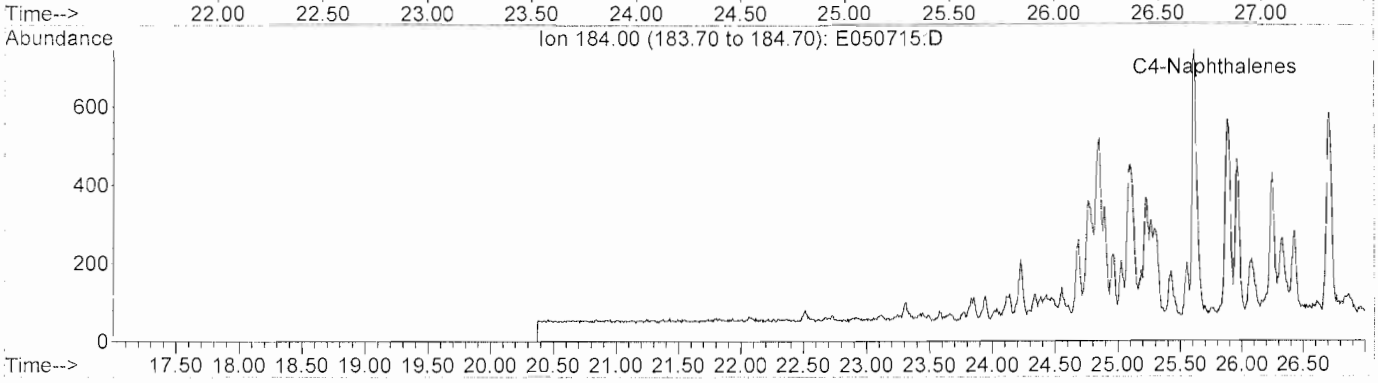
File: J:\1\DATA\E100507\E050715.D
Date Acquired: 8 May 2010 6:44 am
Sample Name: CH100430-08
Misc Info: TM-DP-28 (7-11)







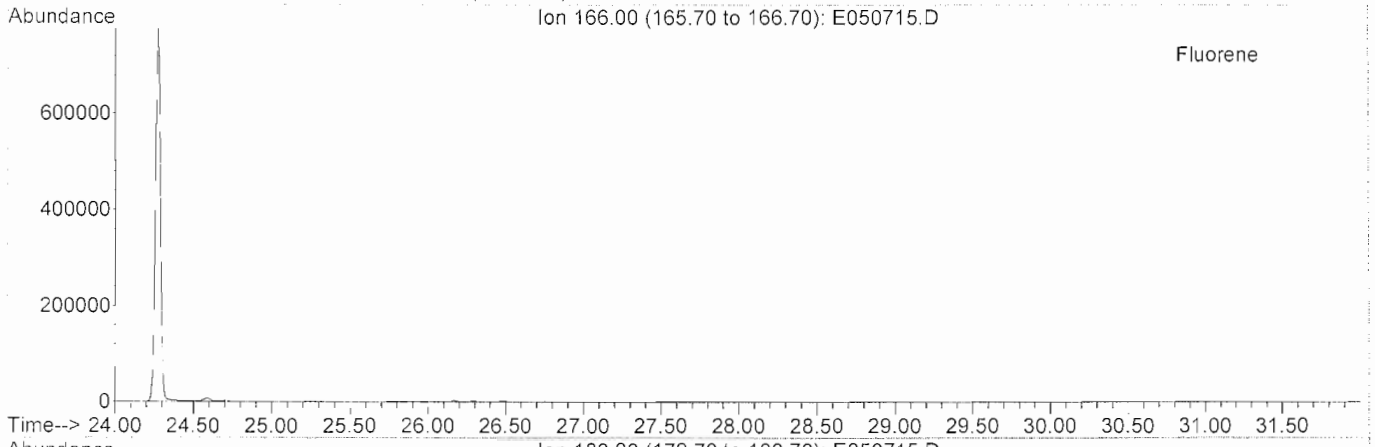


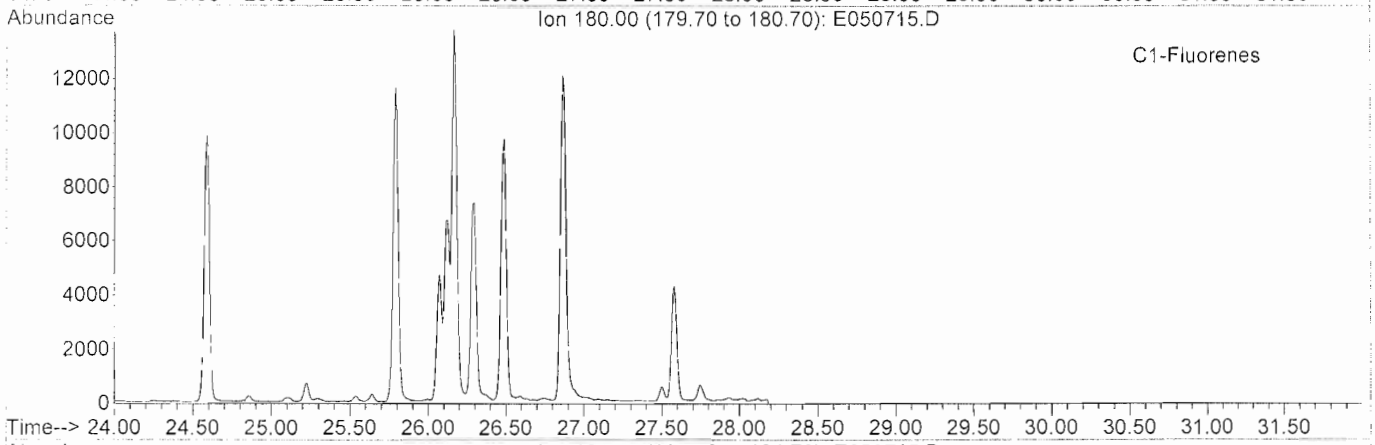


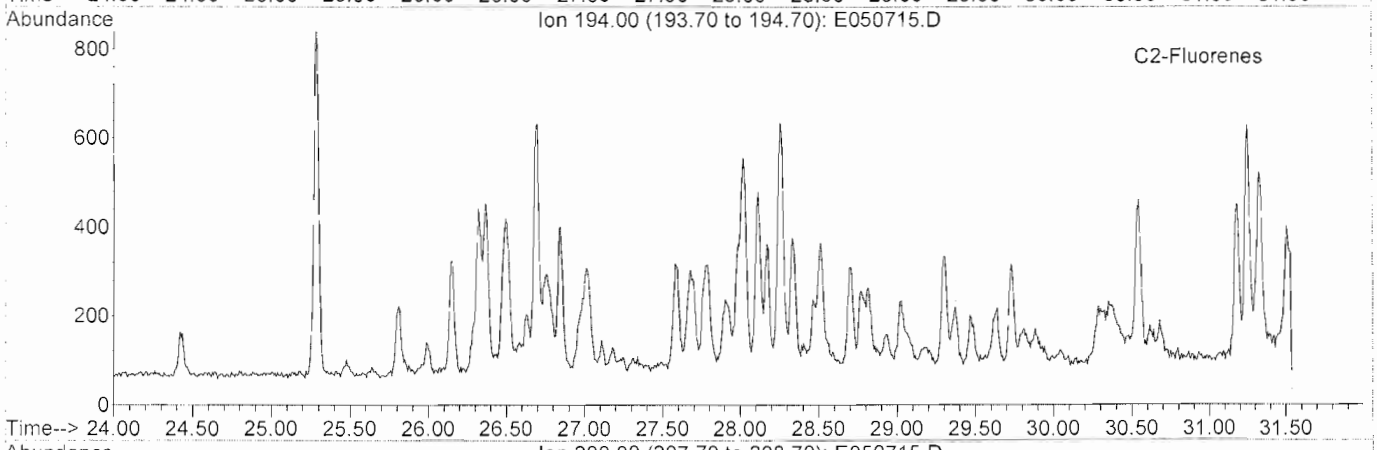
META Environmental, Inc.

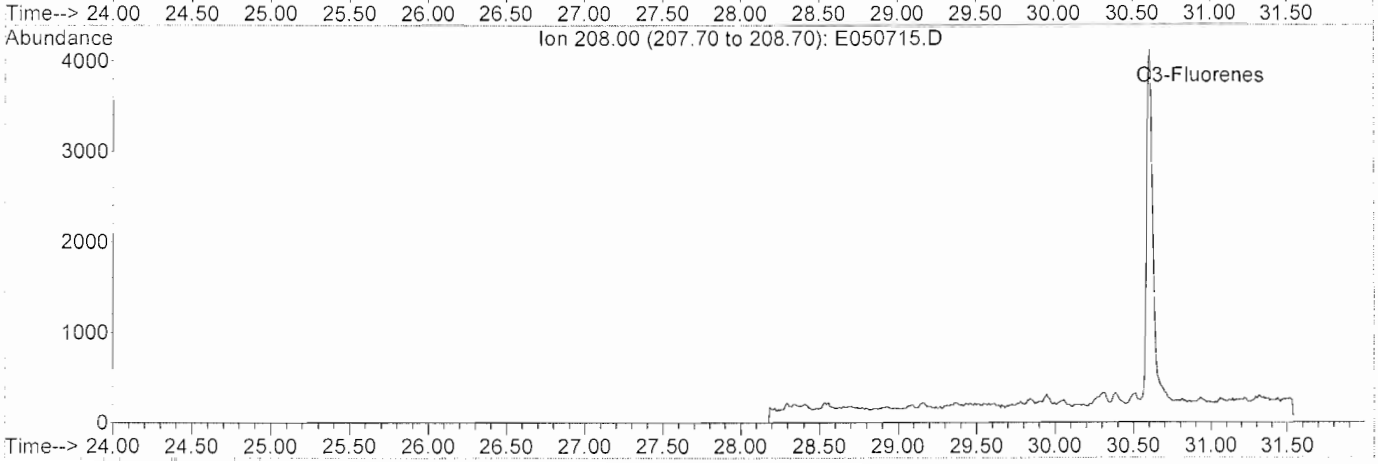
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Date Acquired: 8 May 2010 6:44 am
Sample Name: CH100430-08
Misc Info: TM-DP-28 (7-11)





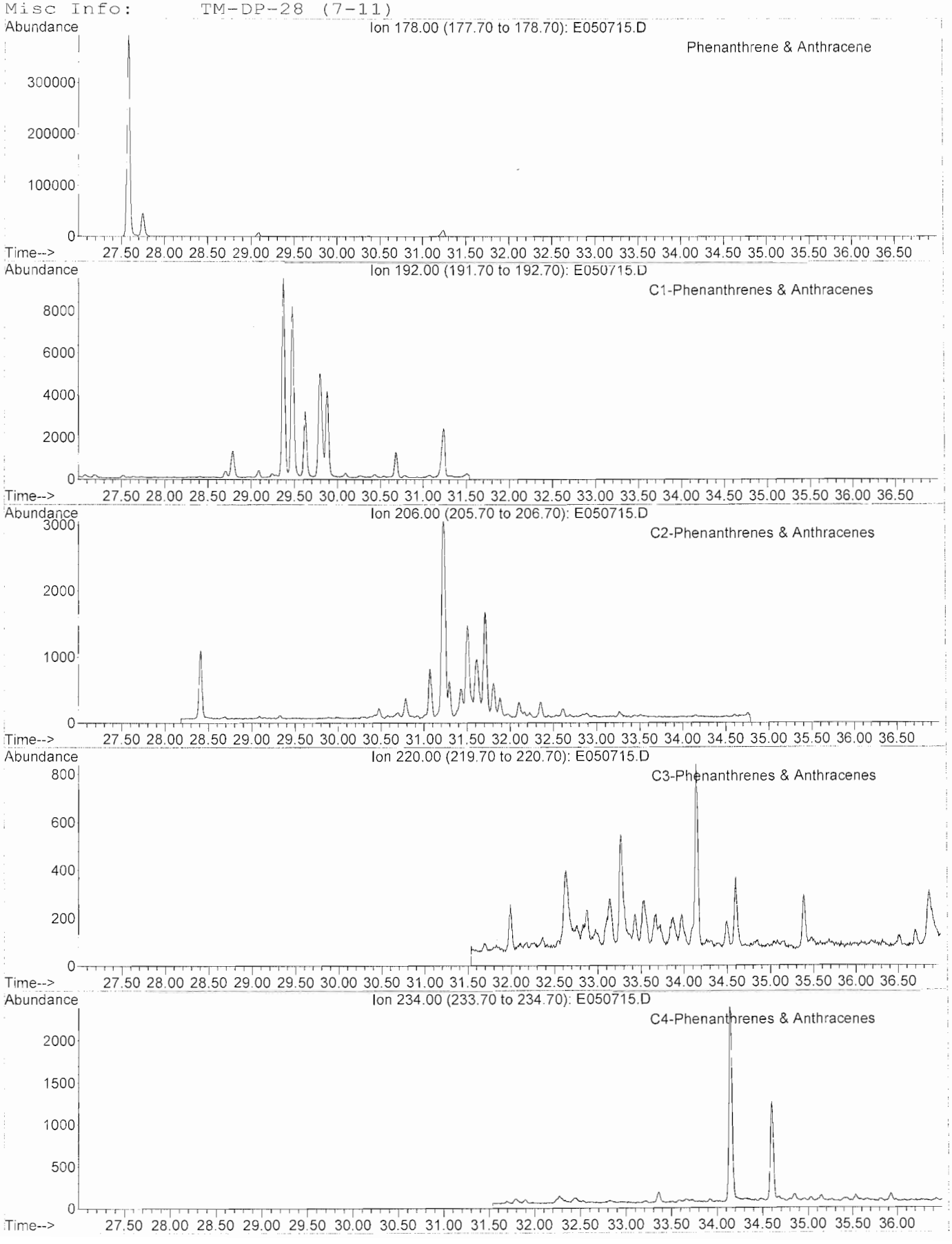




META Environmental, Inc.

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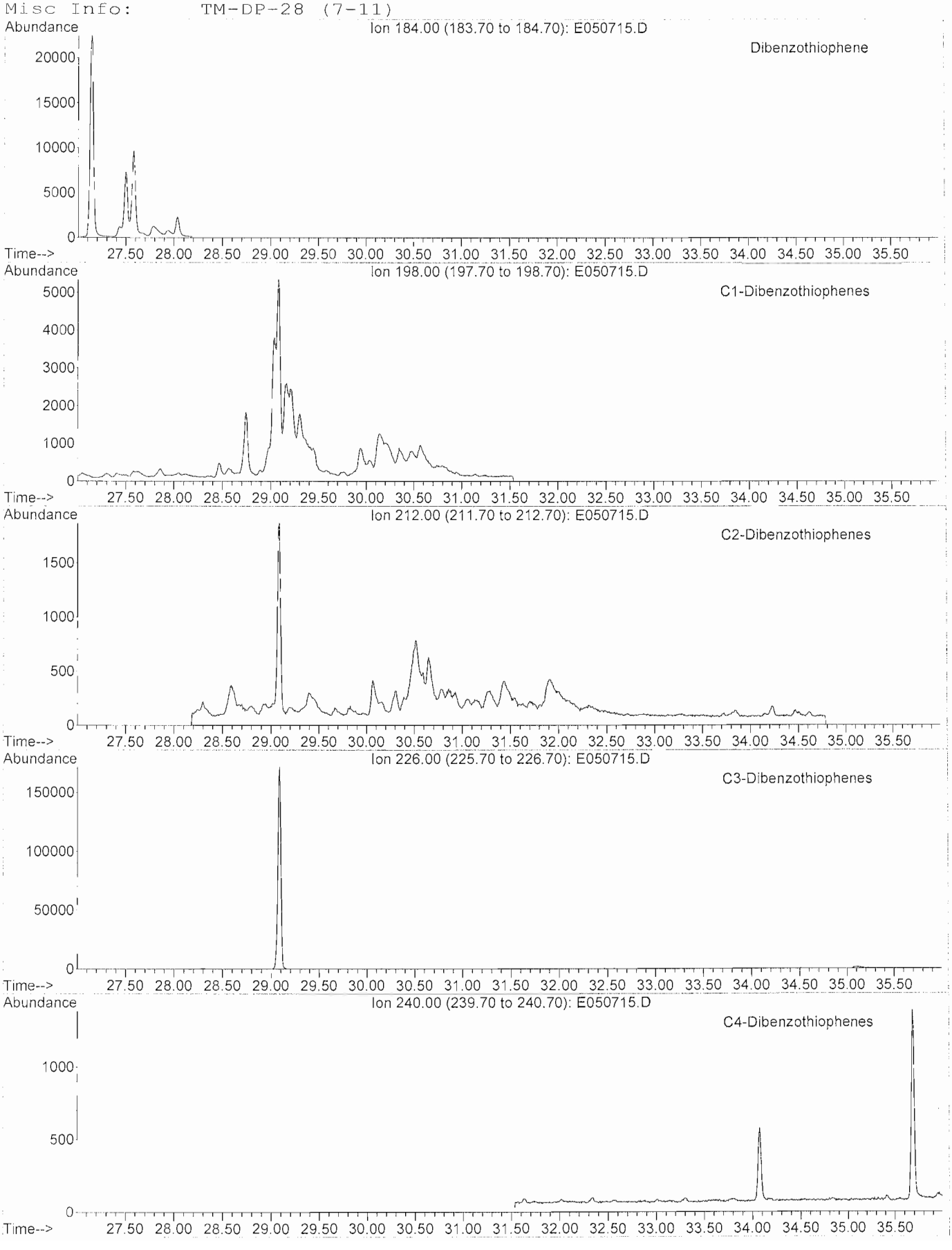
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Misc Info: TM-DP-28 (7-11)



META Environmental, Inc.

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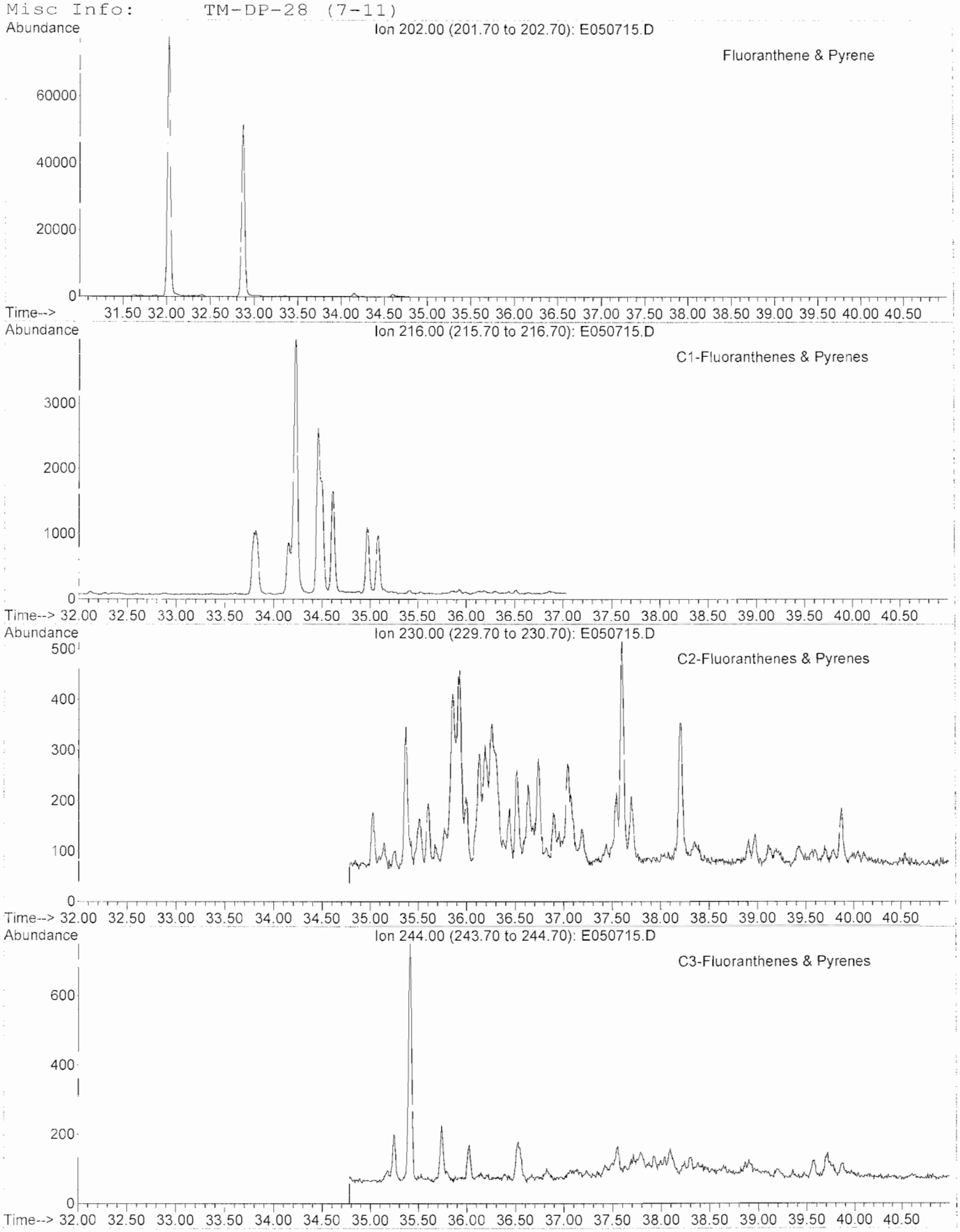
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META Environmental, Inc.

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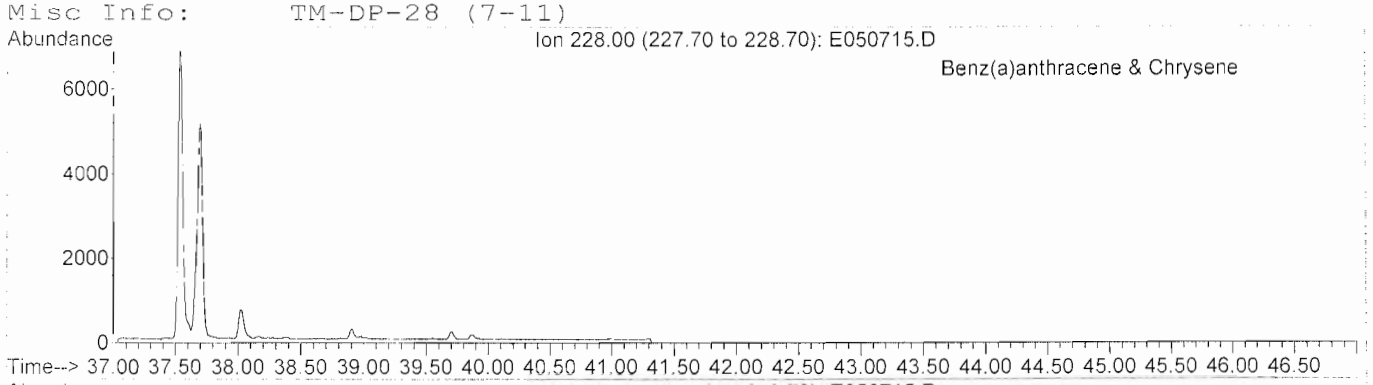
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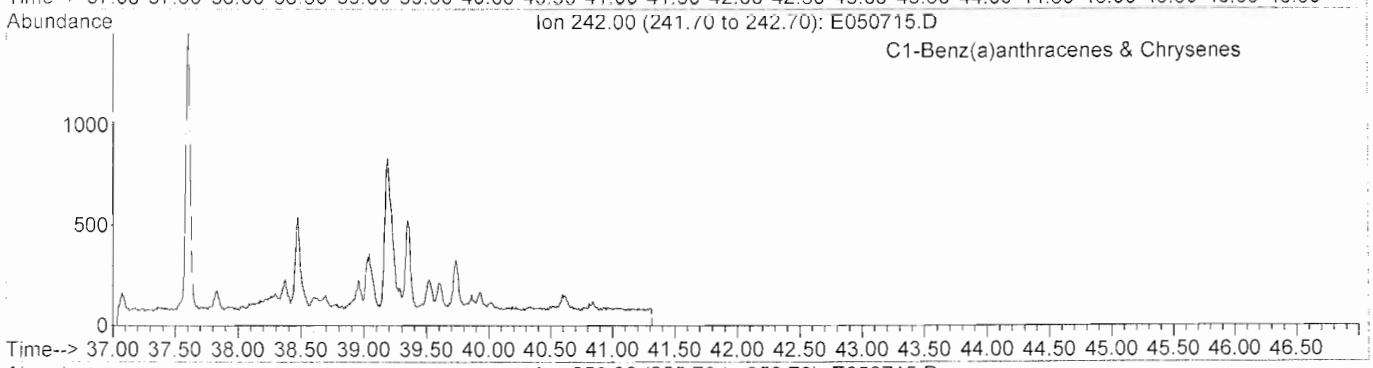


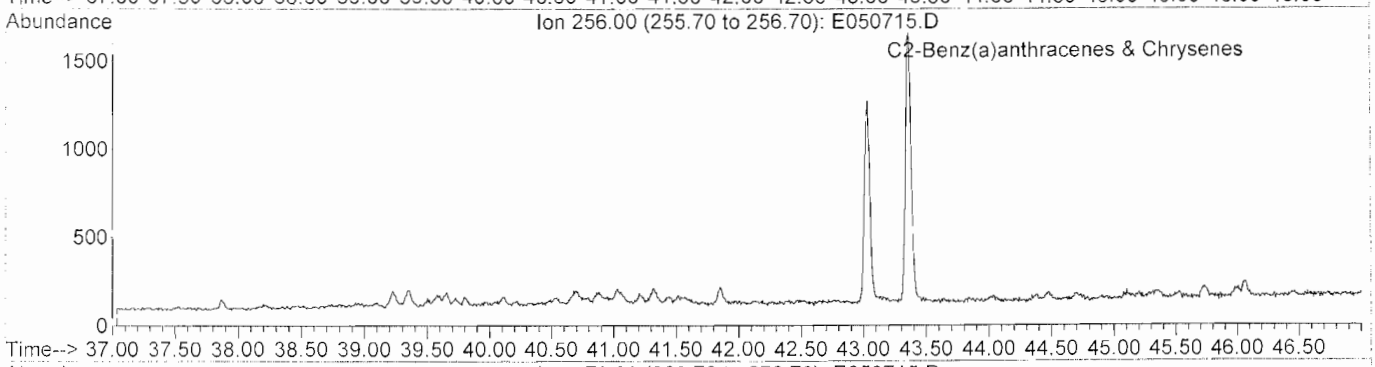
META Environmental, Inc.

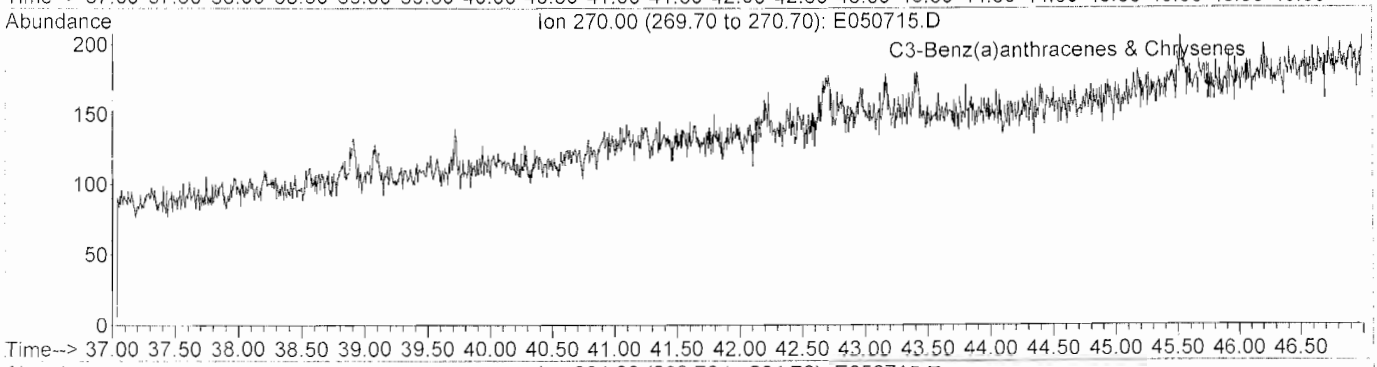
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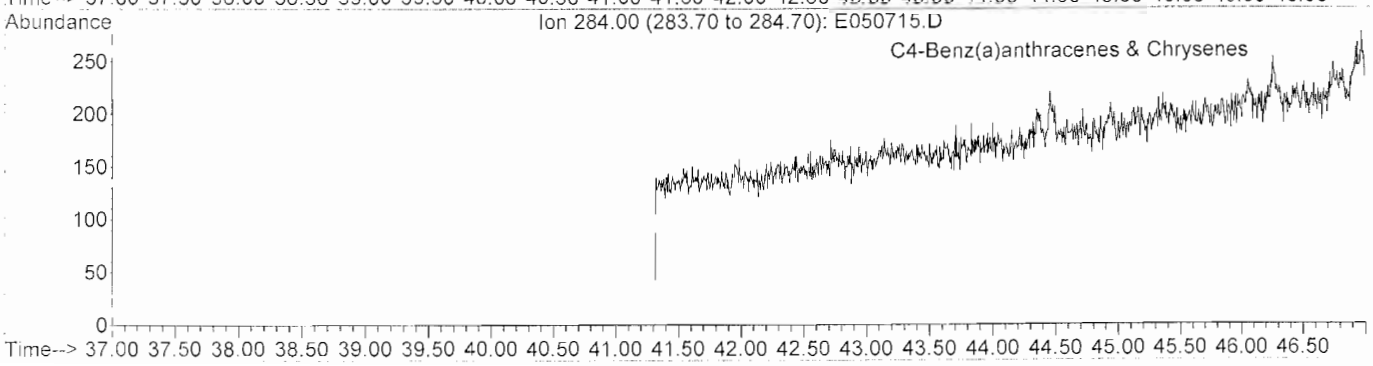
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Misc Info: TM-DP-28 (7-11)







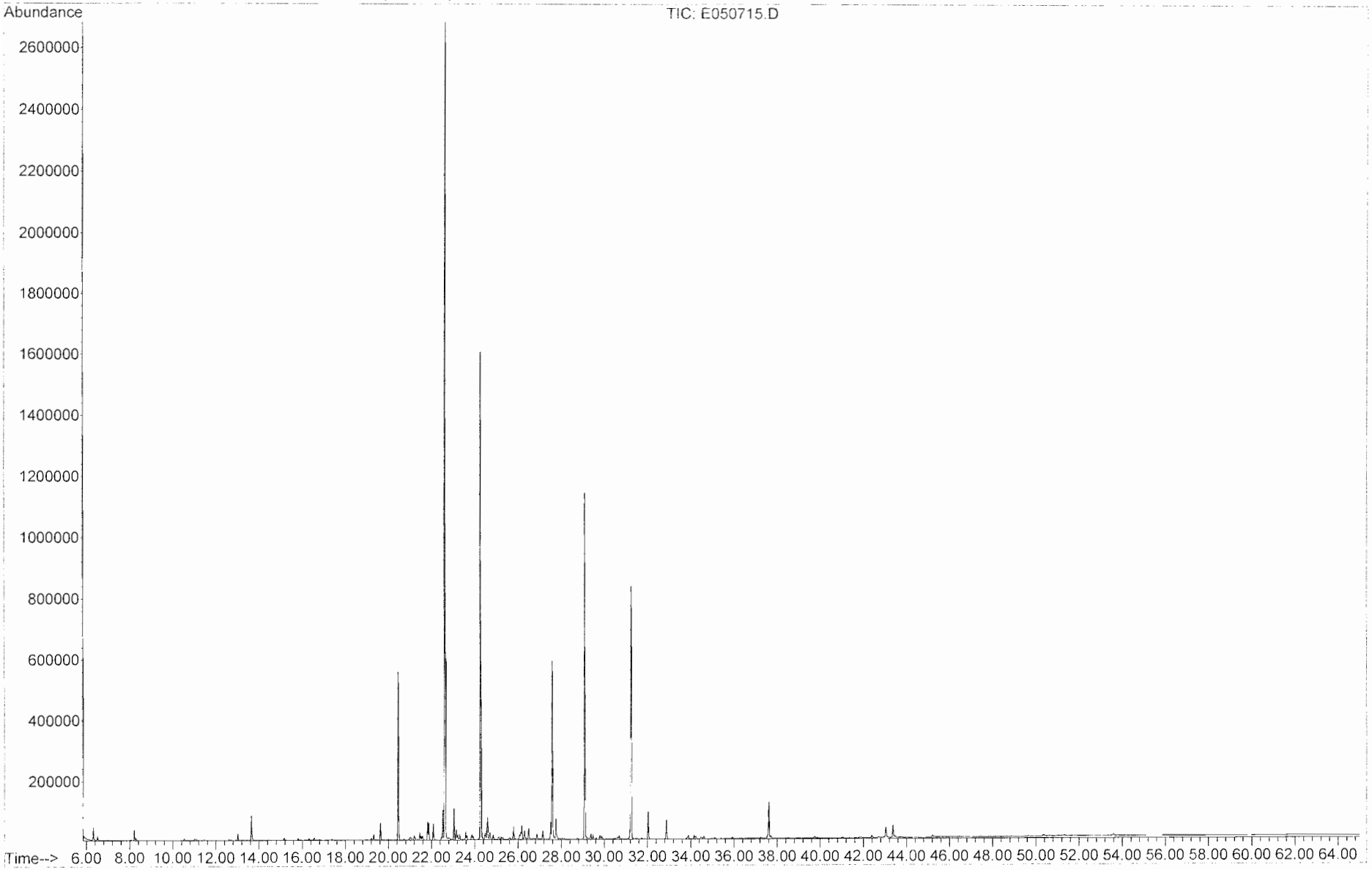




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GC/MS TOTAL ION CHROMATOGRAM

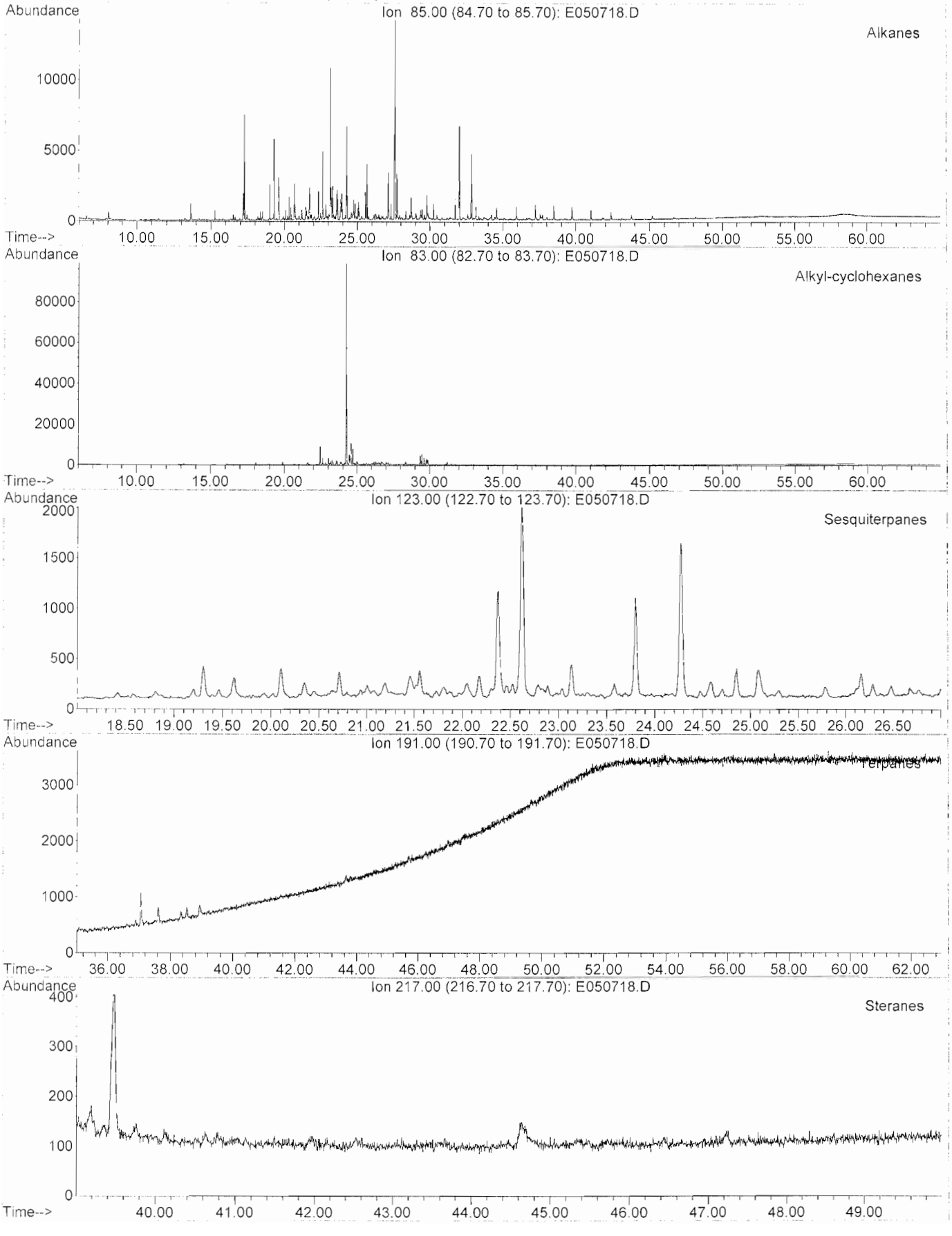
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Misc Info: TM-DP-28 (7-11)



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

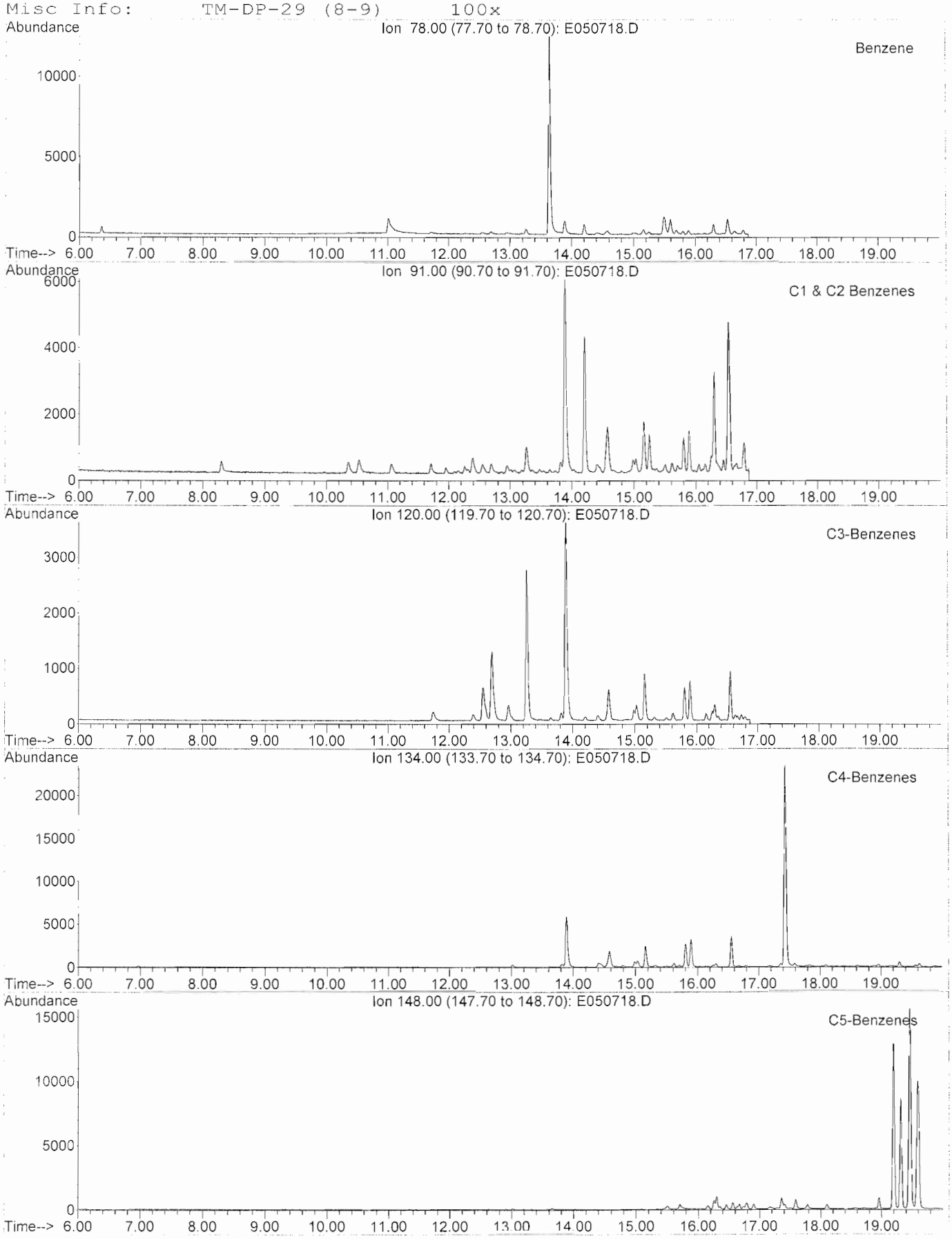
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Date Acquired: 8 May 2010 10:33 am
Sample Name: CH100430-09-D
Misc Info: TM-DP-29 (8-9) 100x



META Environmental, Inc.

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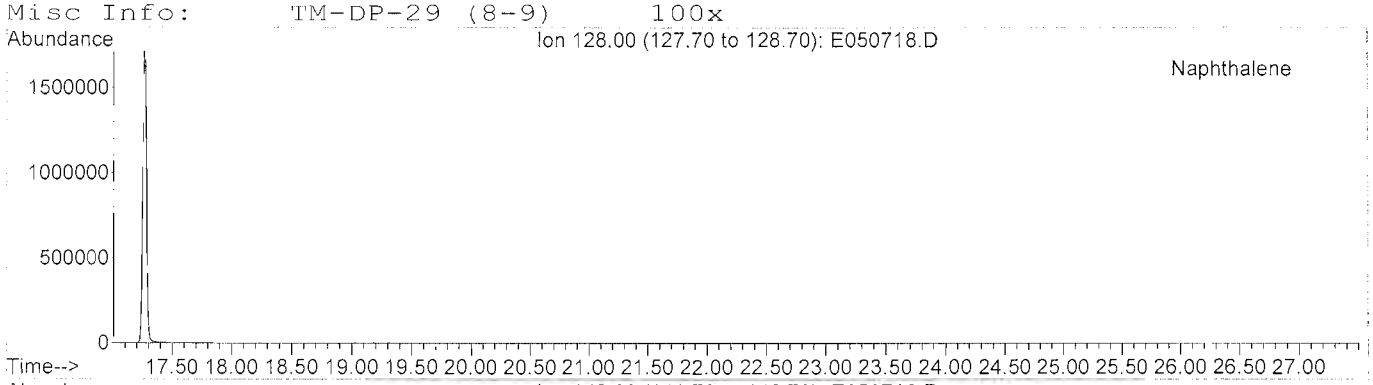
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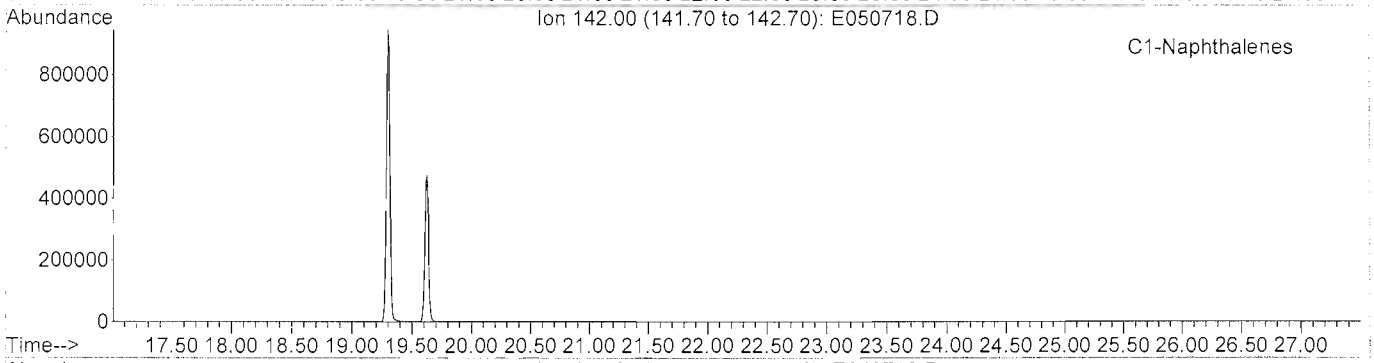


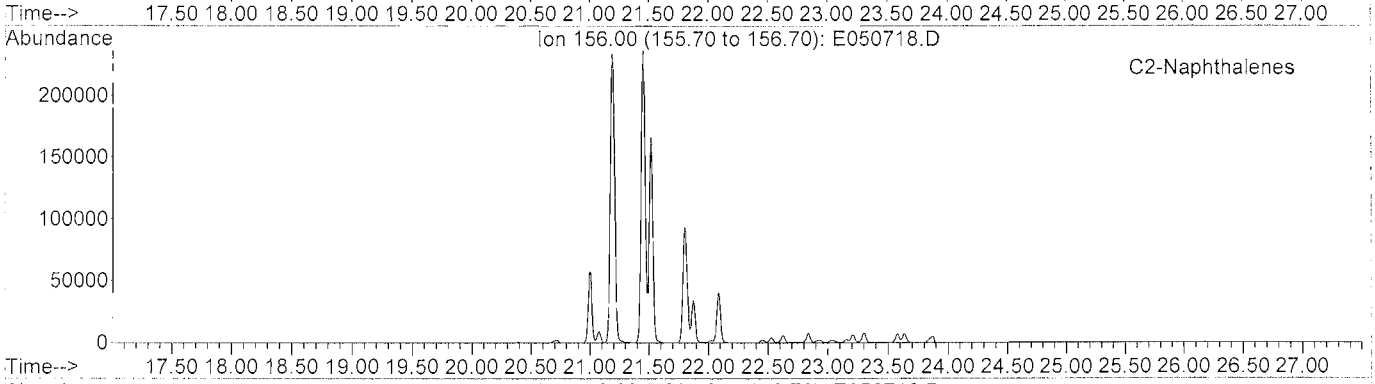
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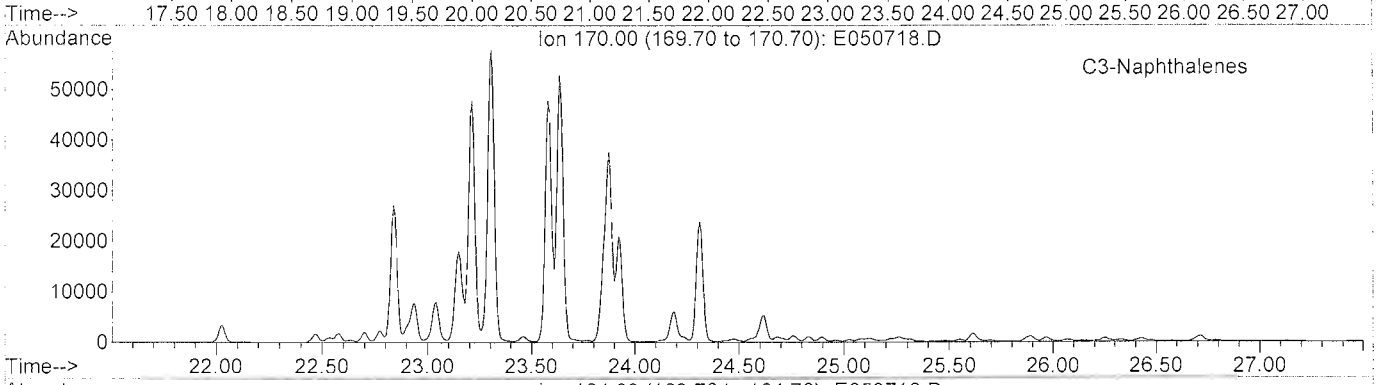
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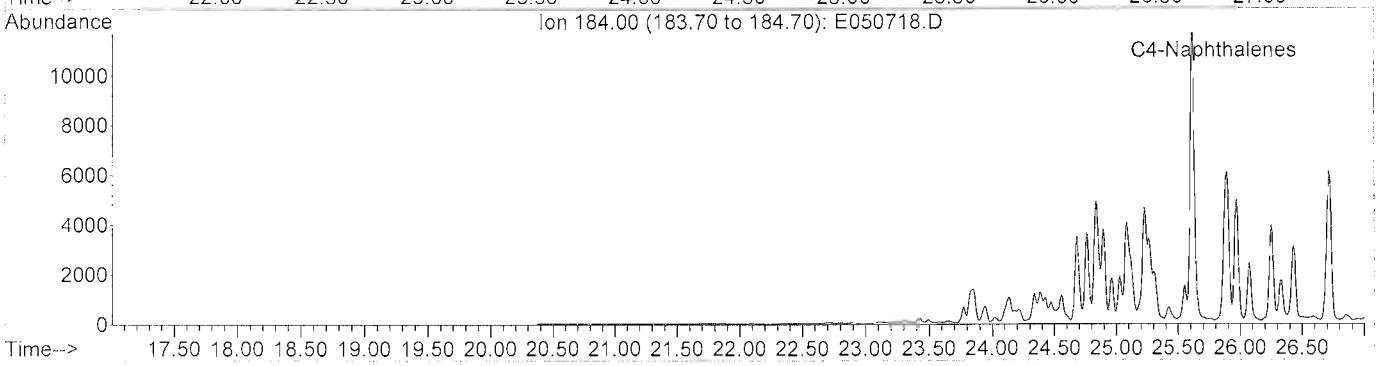
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Misc Info: TM-DP-29 (8-9) 100x







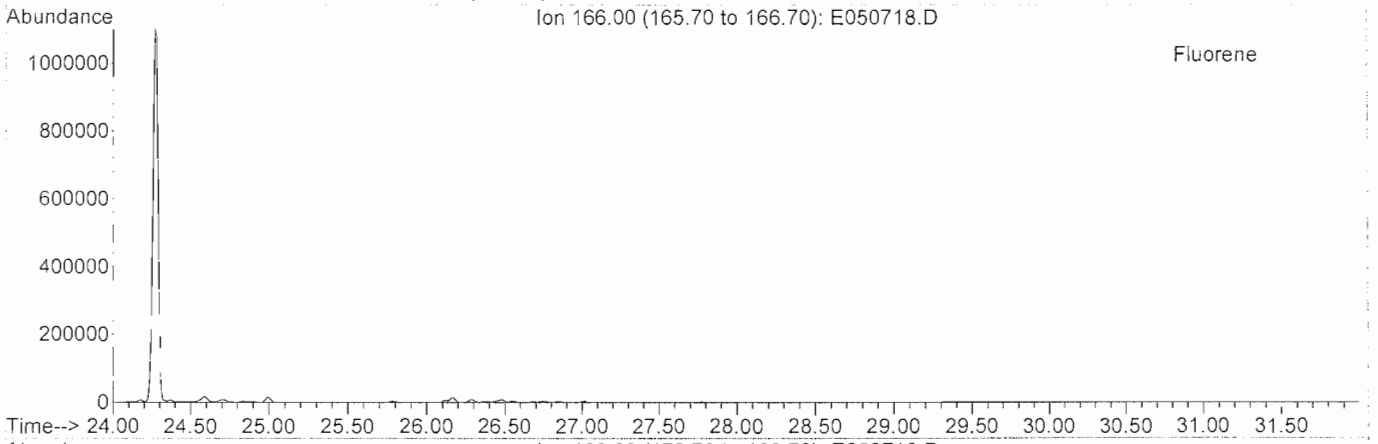


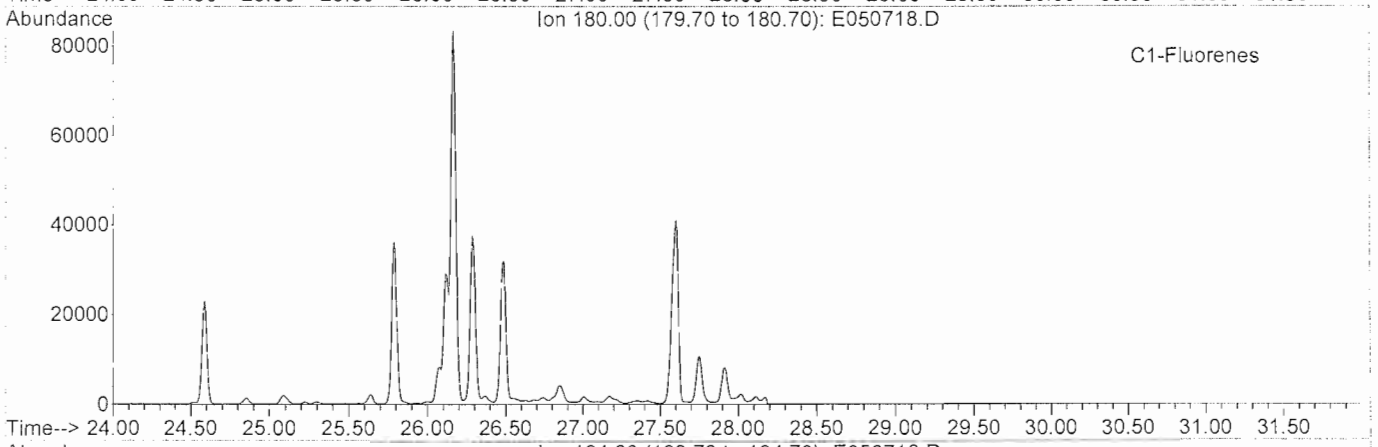


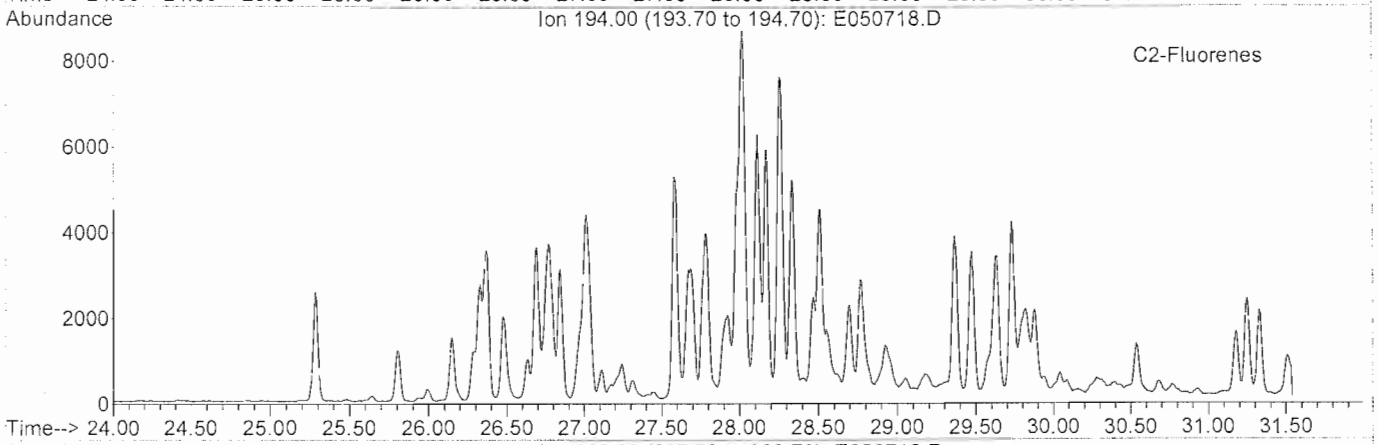
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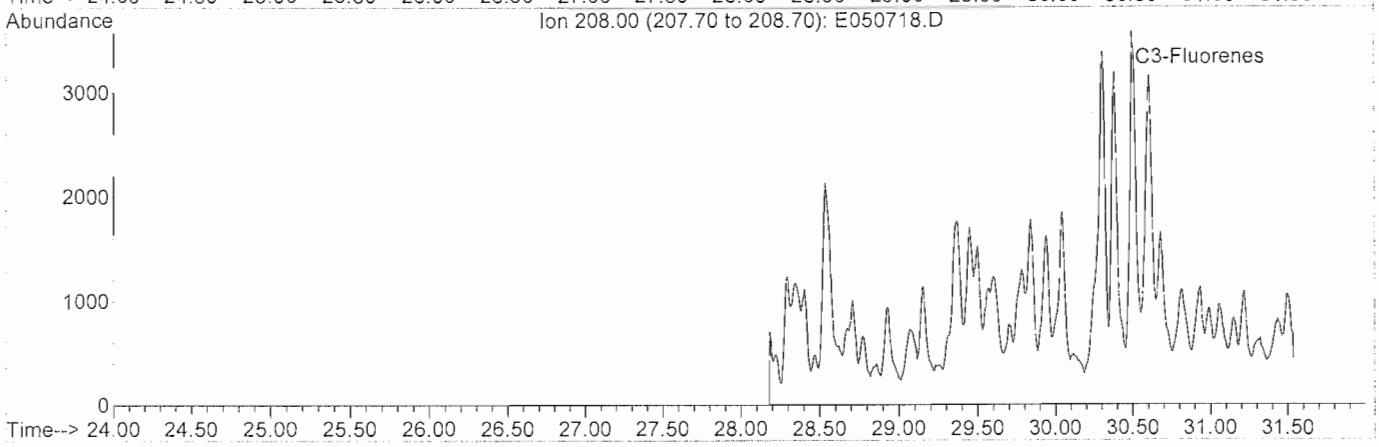
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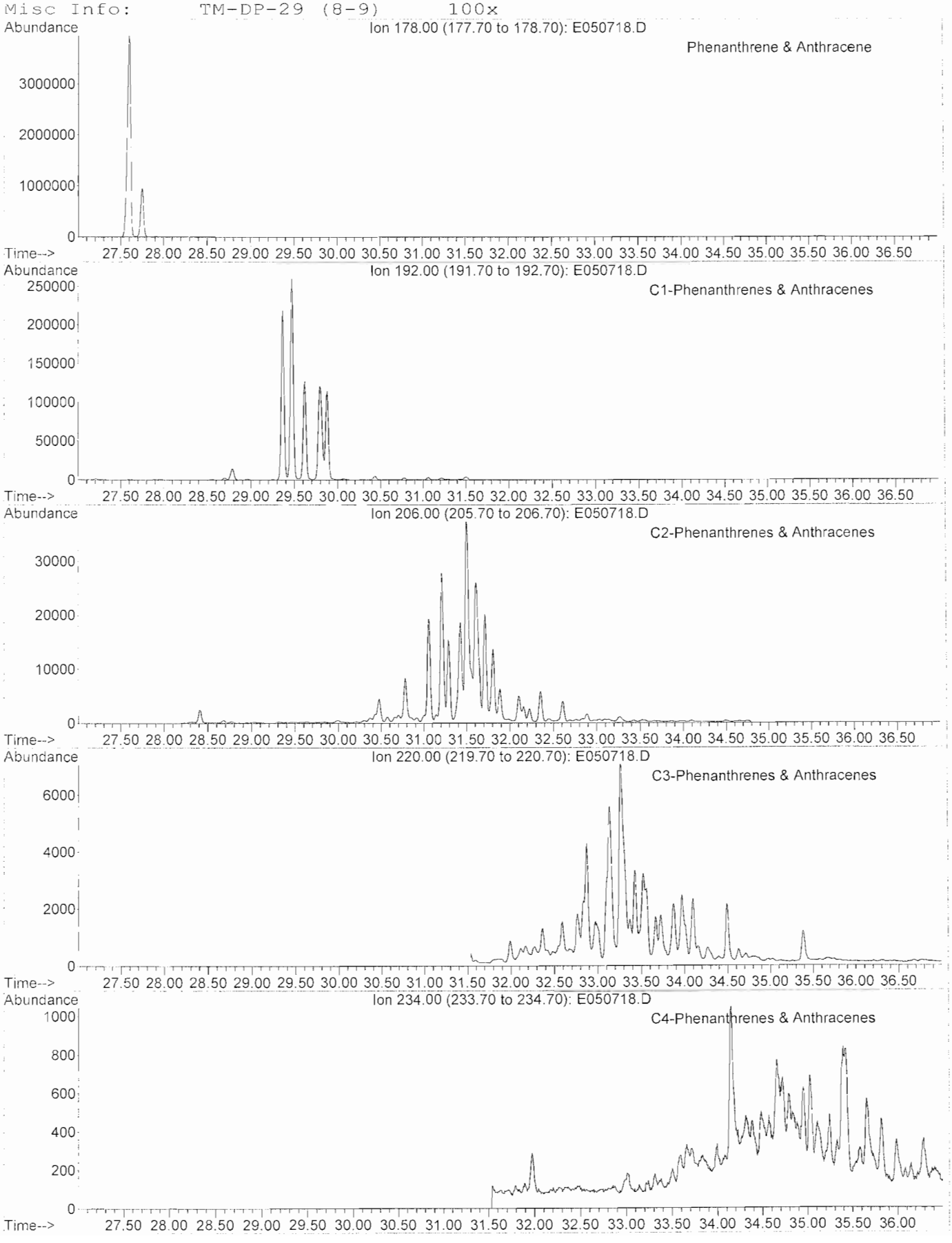




META Environmental, Inc.

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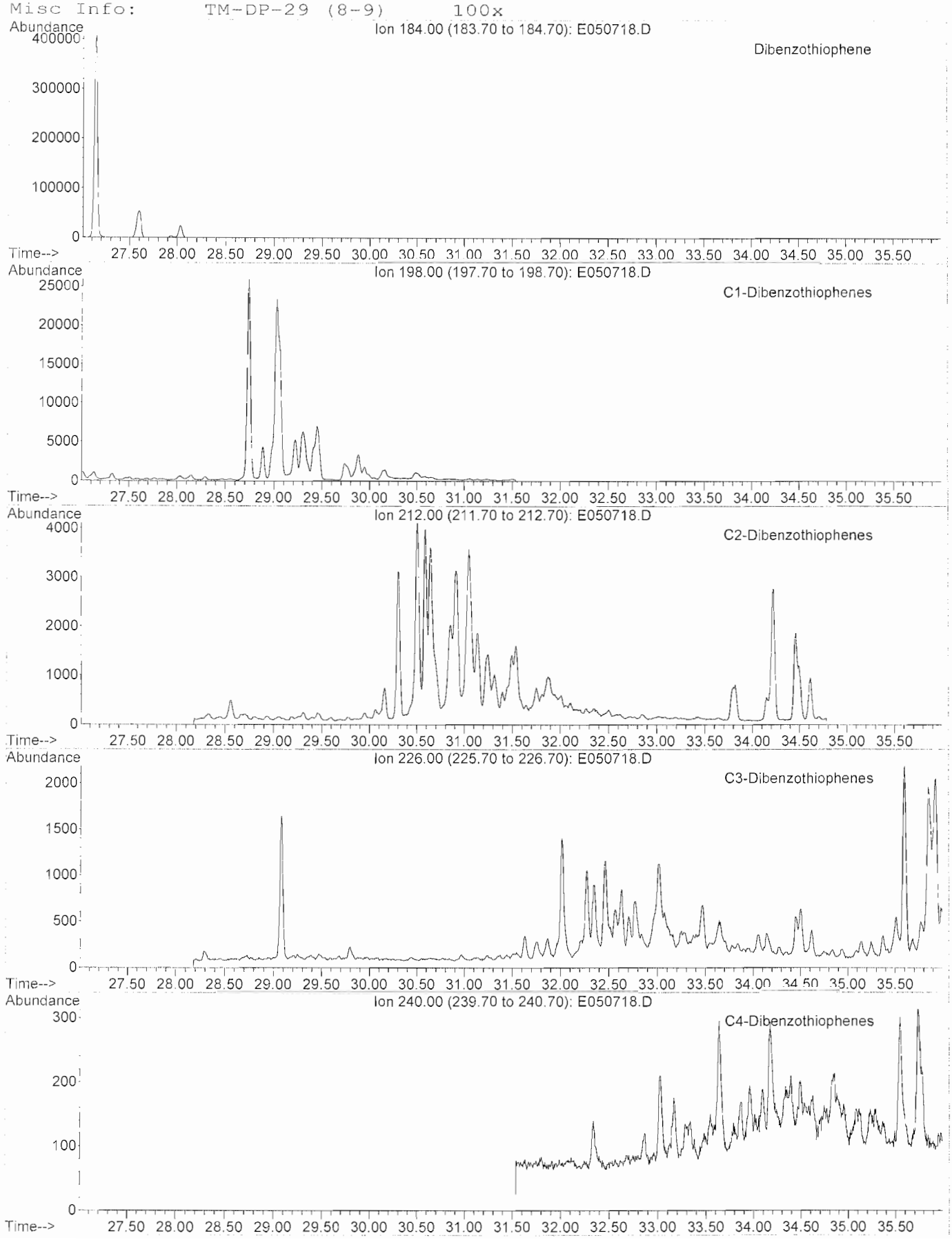
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META Environmental, Inc.

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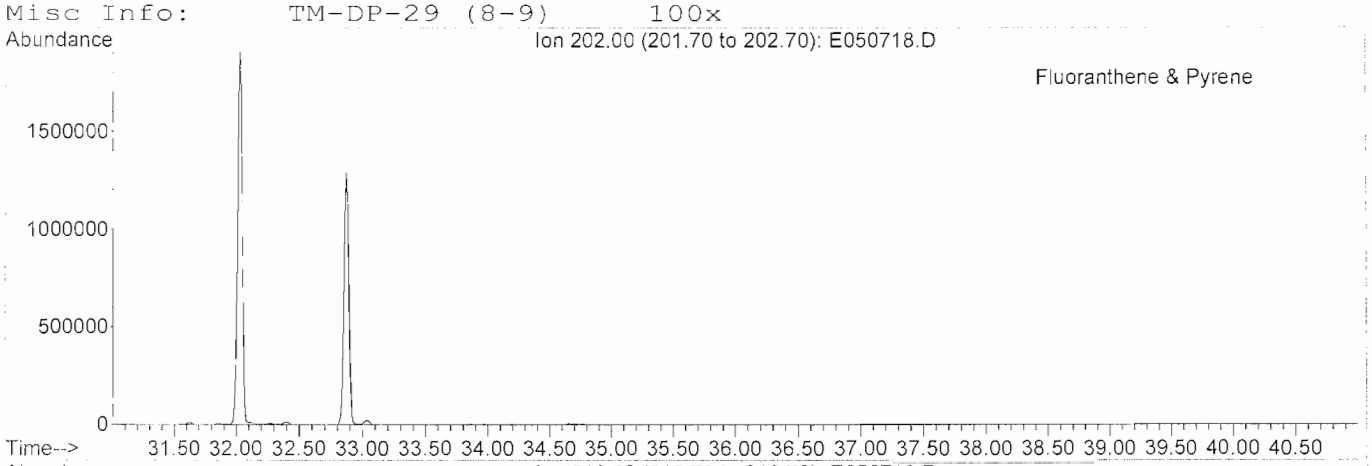
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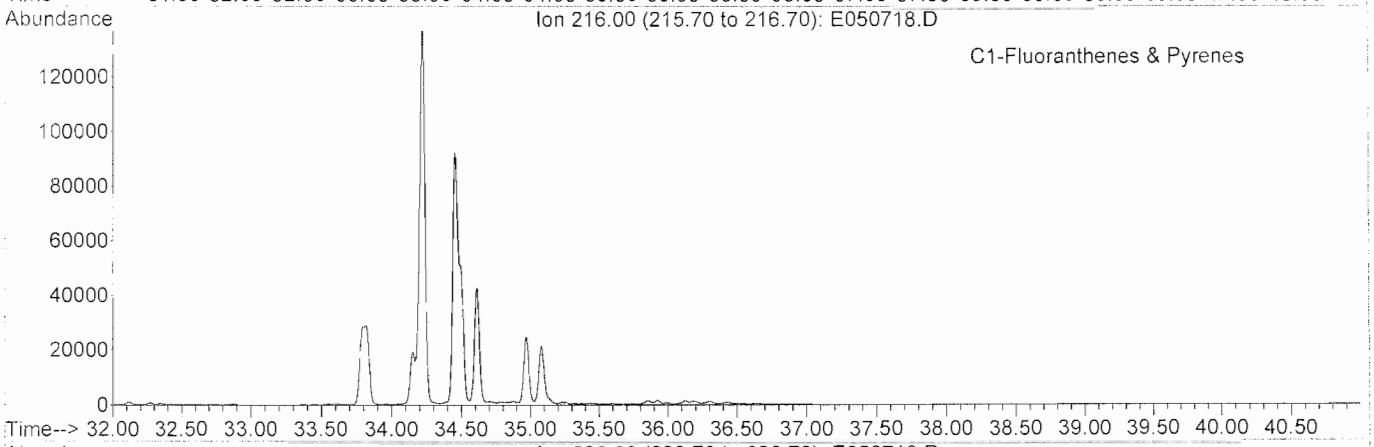


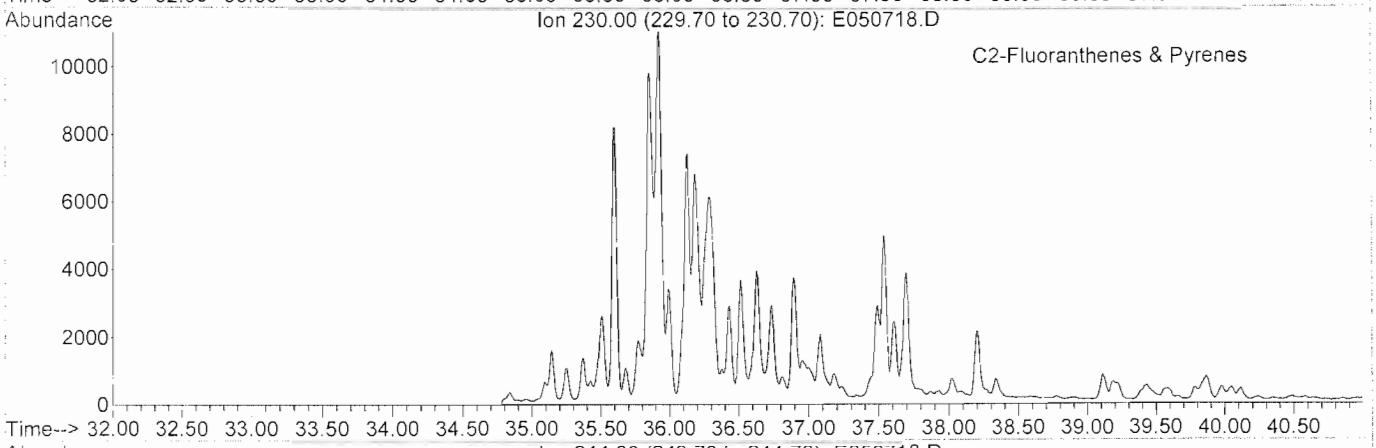
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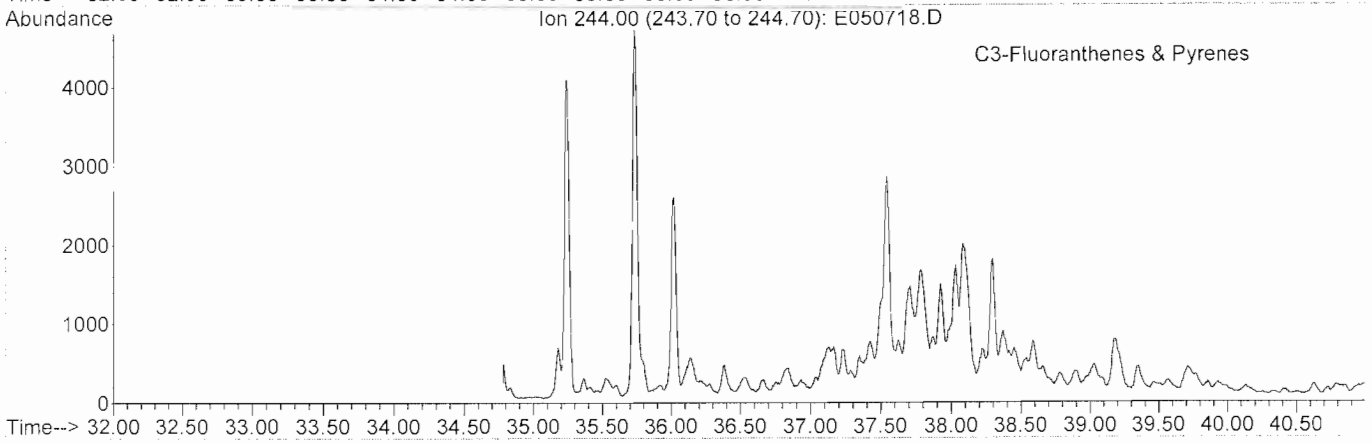
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Date Acquired: 8 May 2010 10:33 am
Sample Name: CH100430-09-D
Misc Info: TM-DP-29 (8-9) 100x





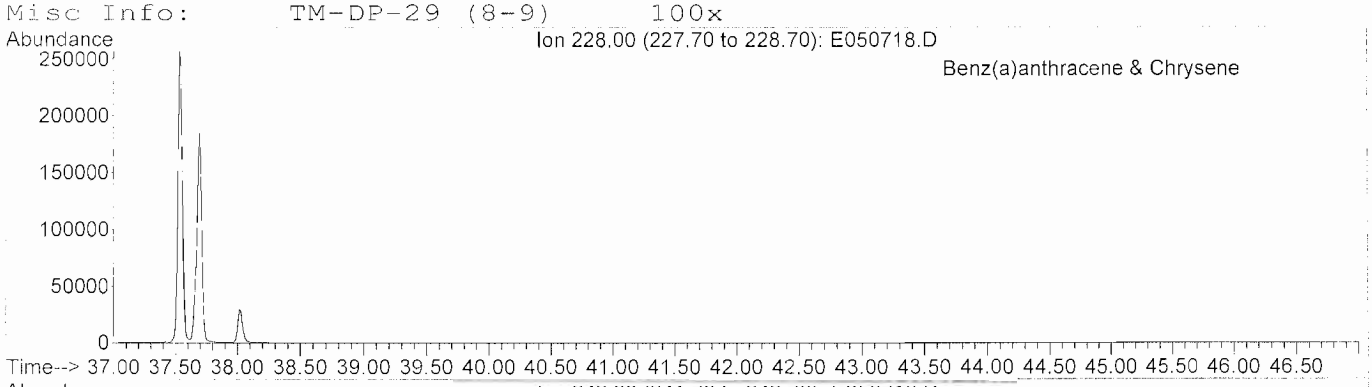


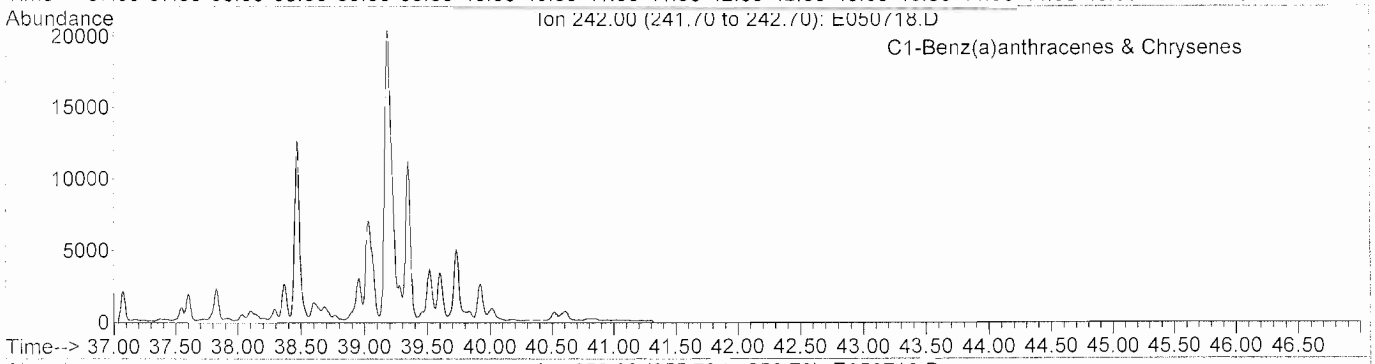


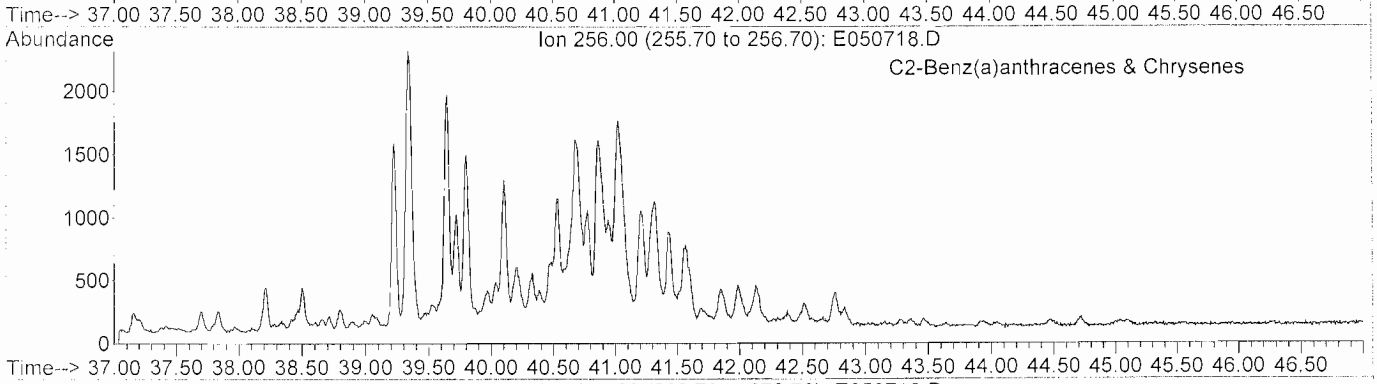
META Environmental, Inc.

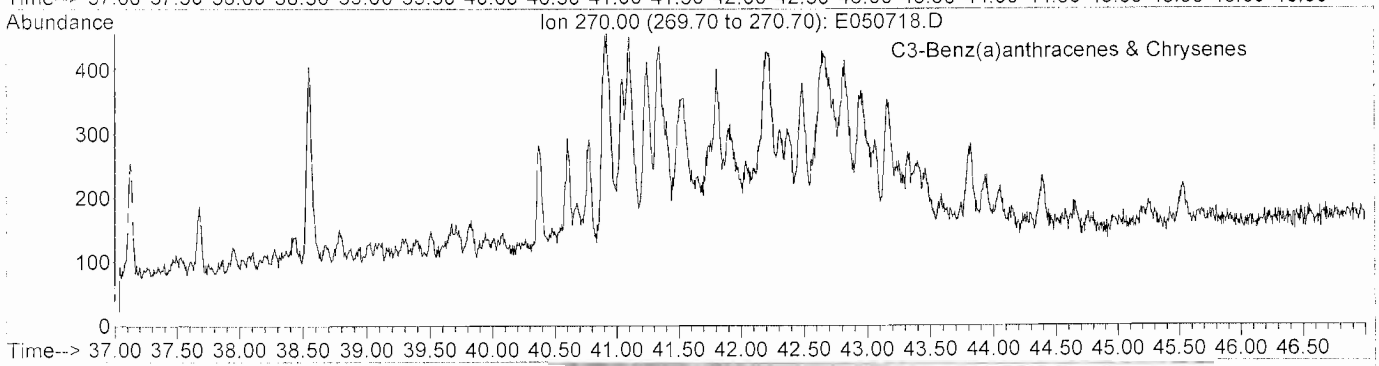
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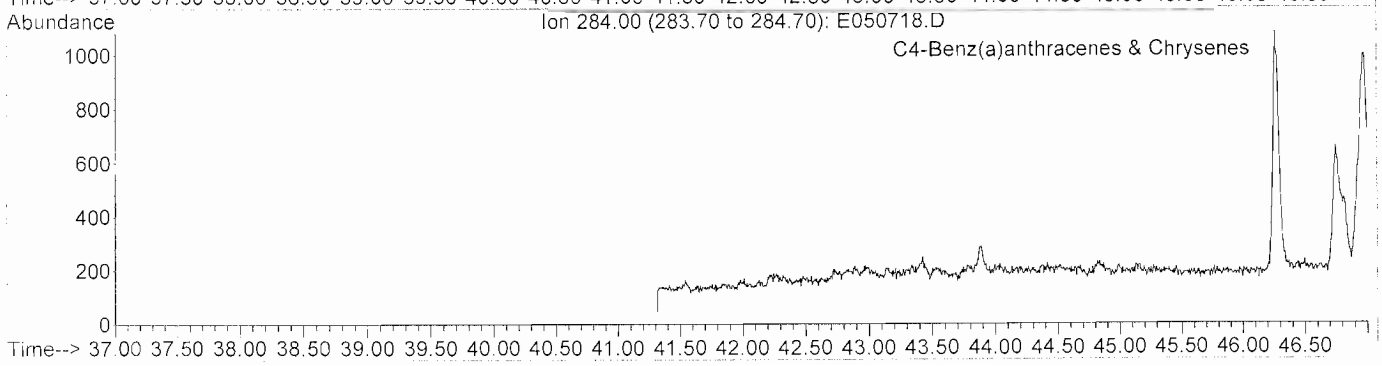
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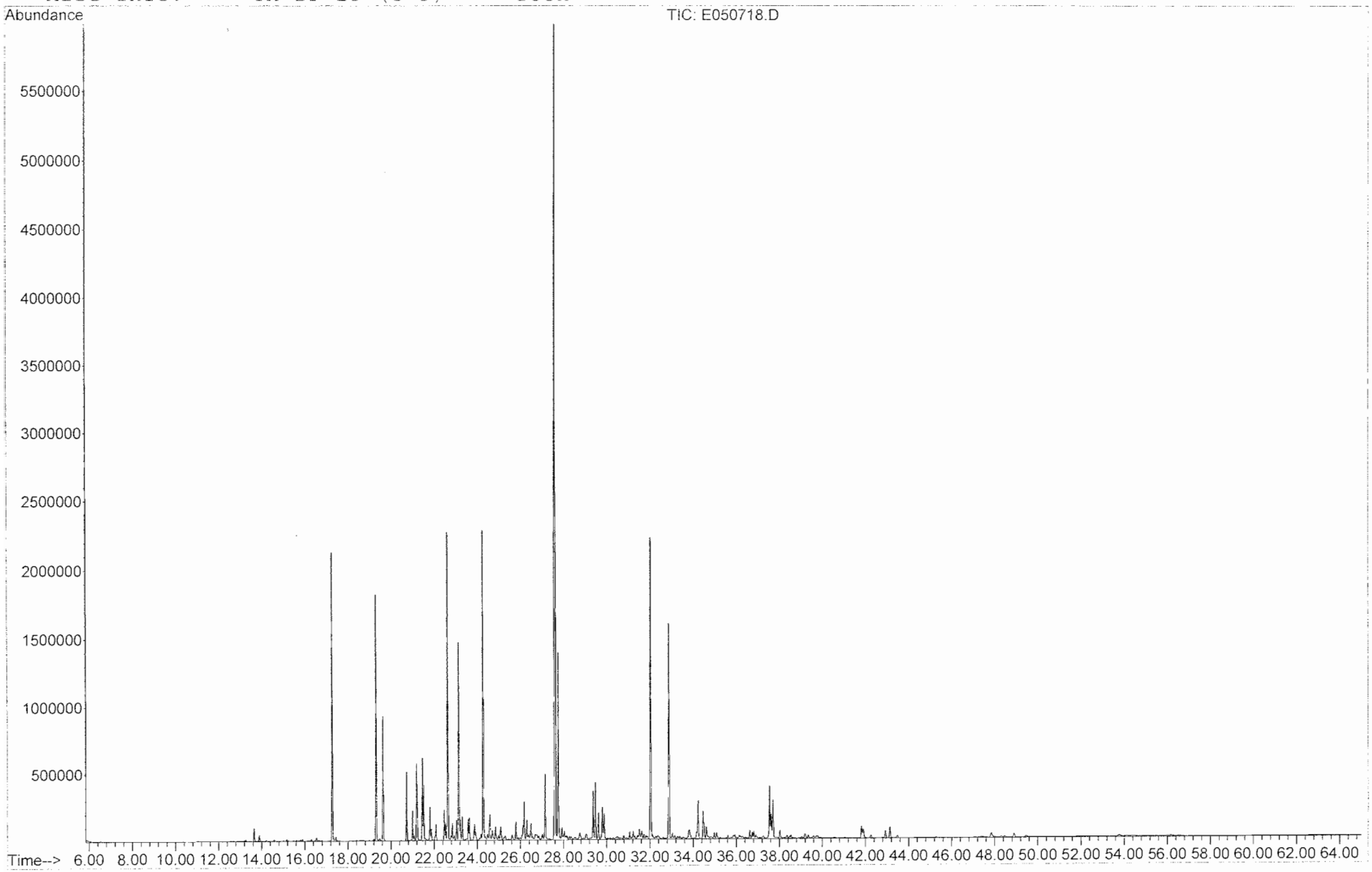




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GC/MS TOTAL ION CHROMATOGRAM

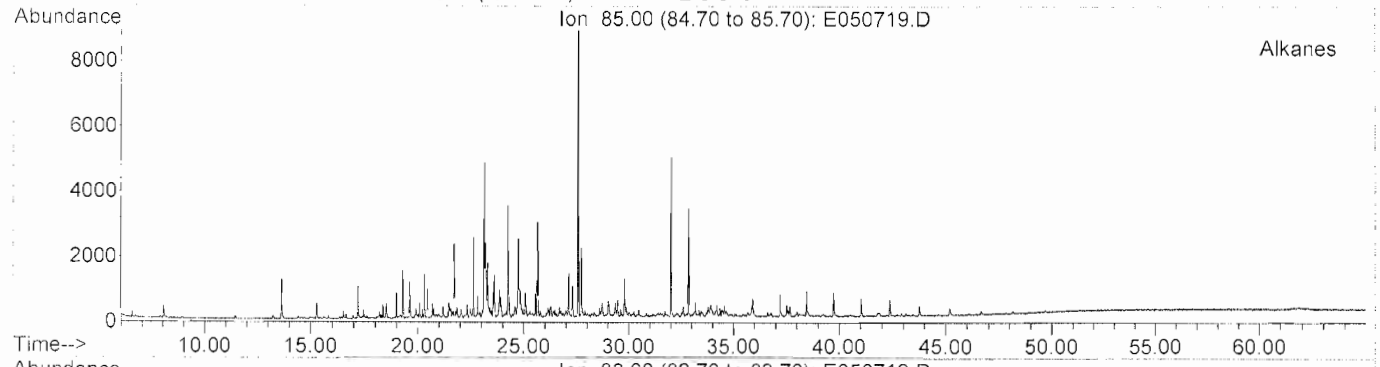
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Misc Info: TM-DP-29 (8-9) 100x

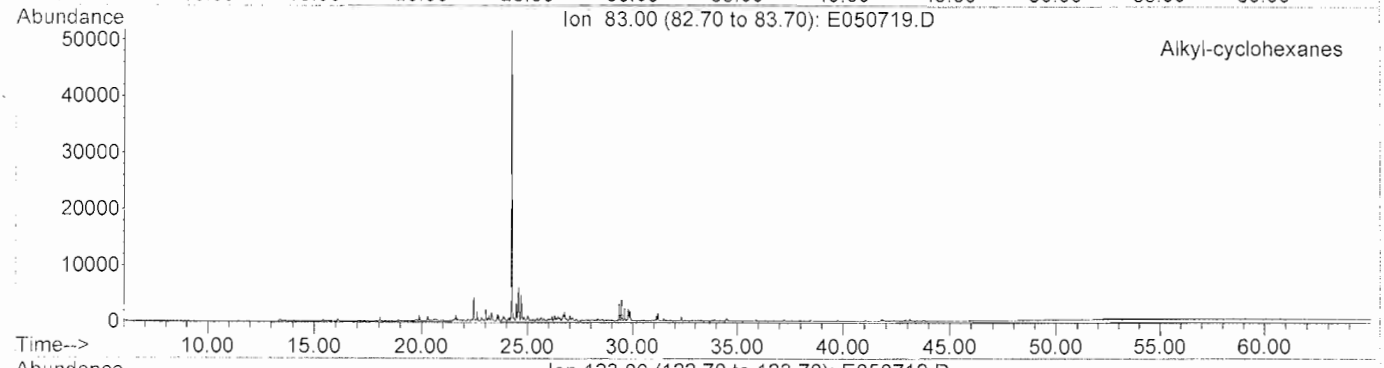


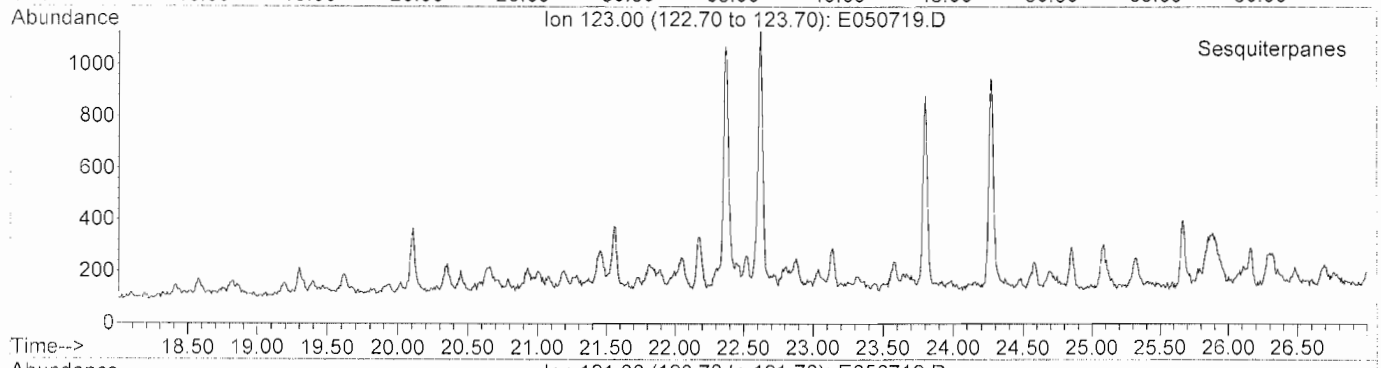
META Environmental, Inc.

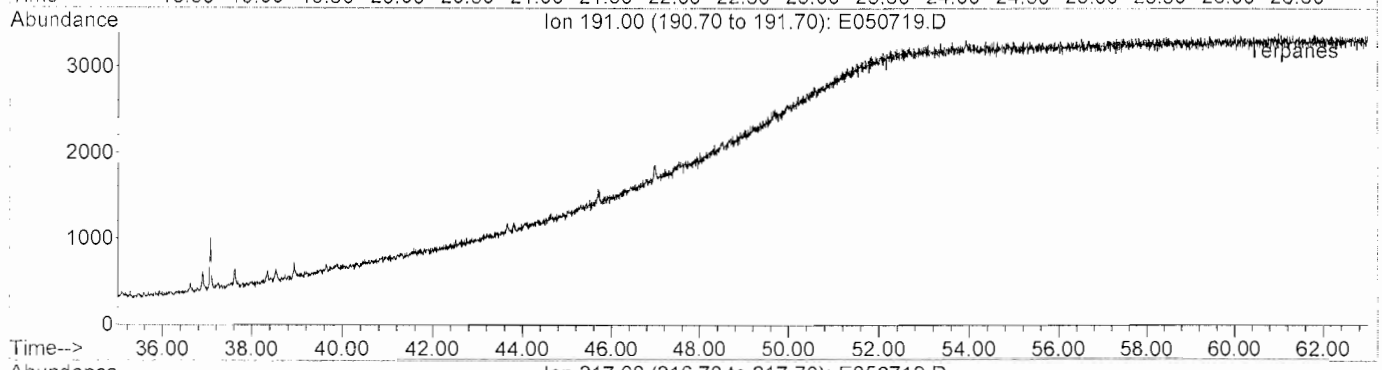
GC/MS EXTRACTED ION CHROMATOGRAM

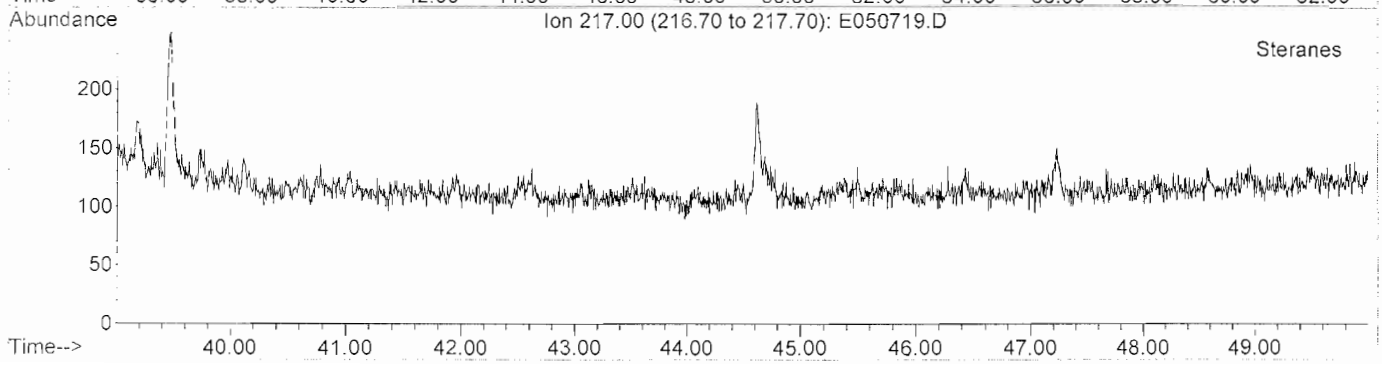
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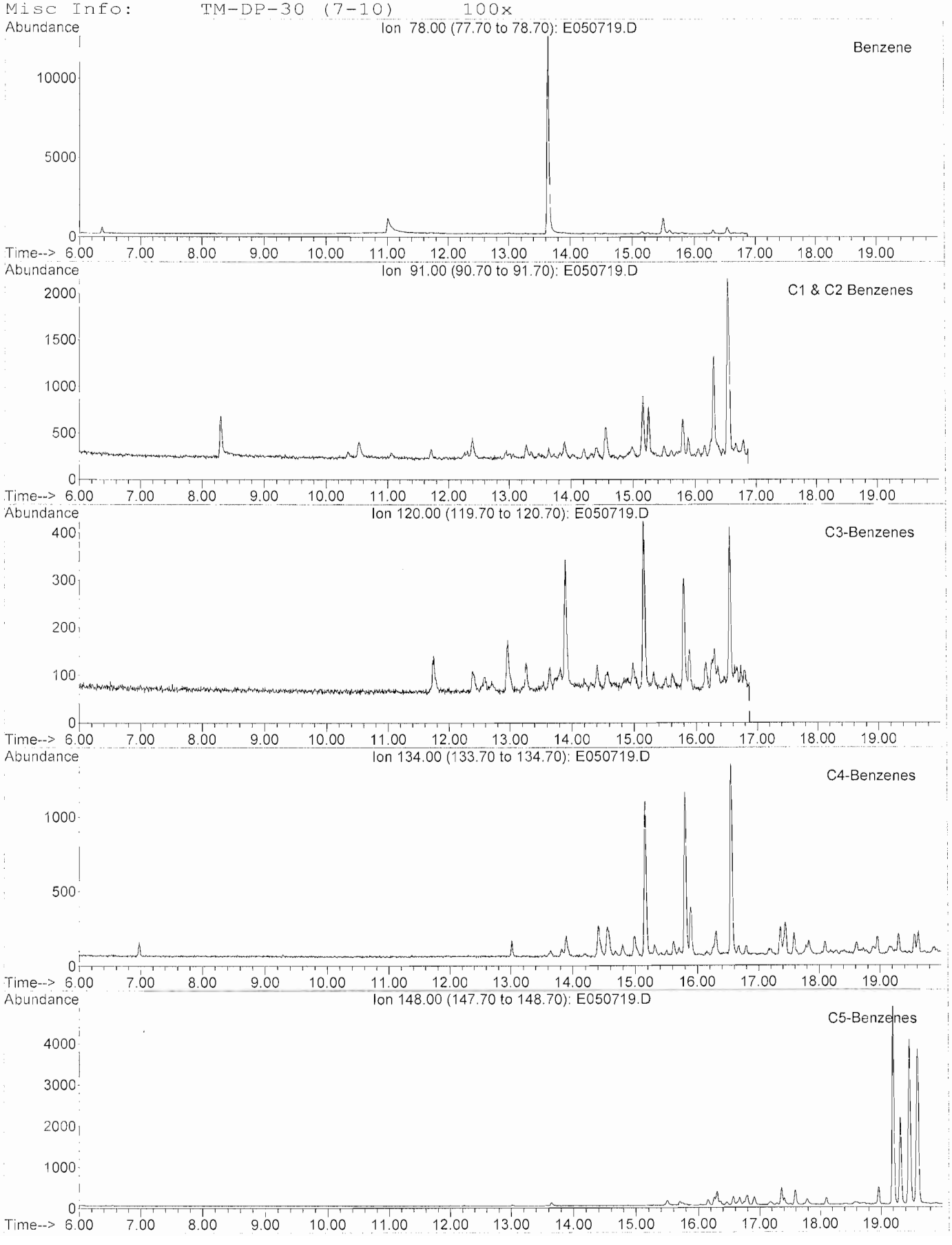




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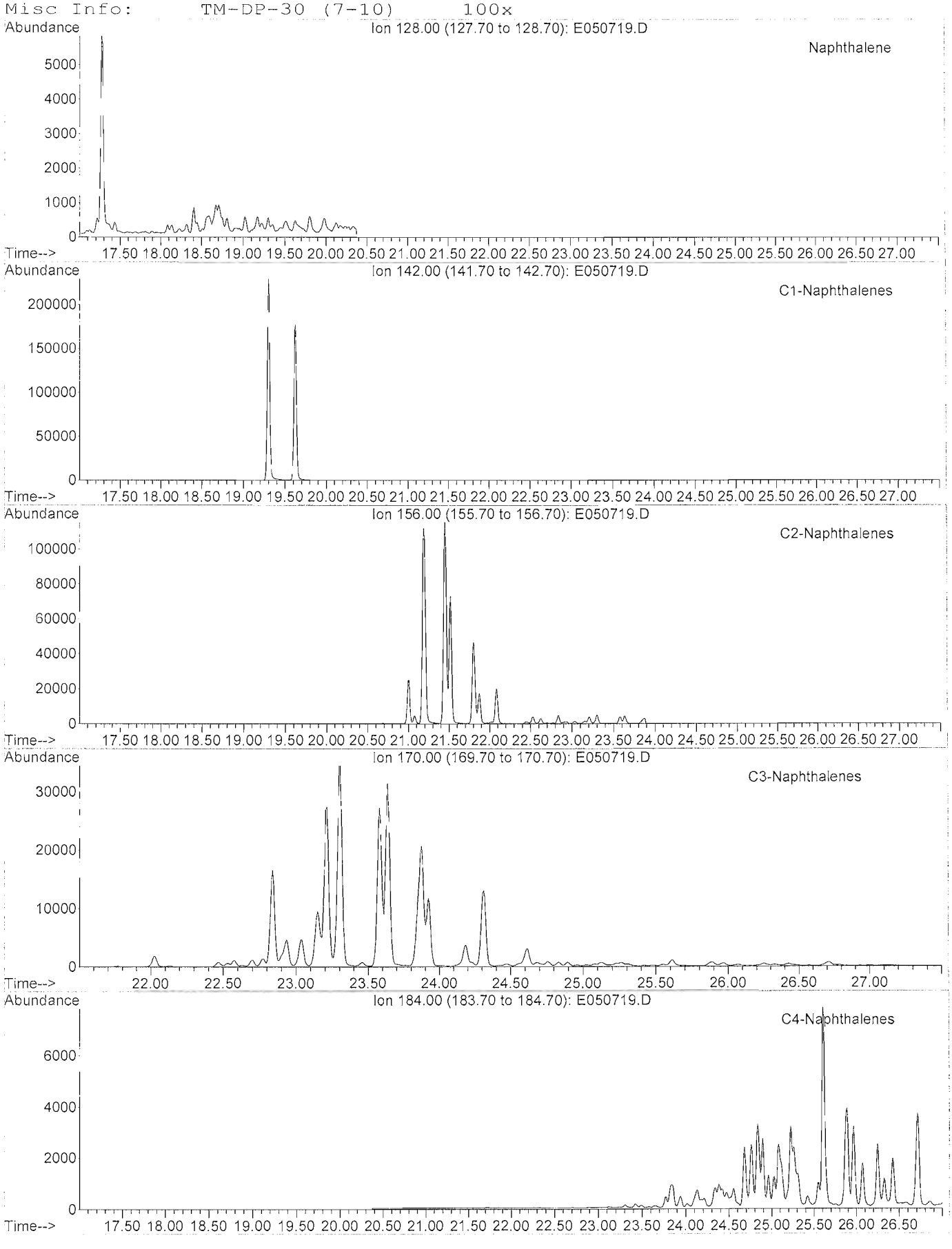
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Misc Info: TM-DP-30 (7-10) 100x



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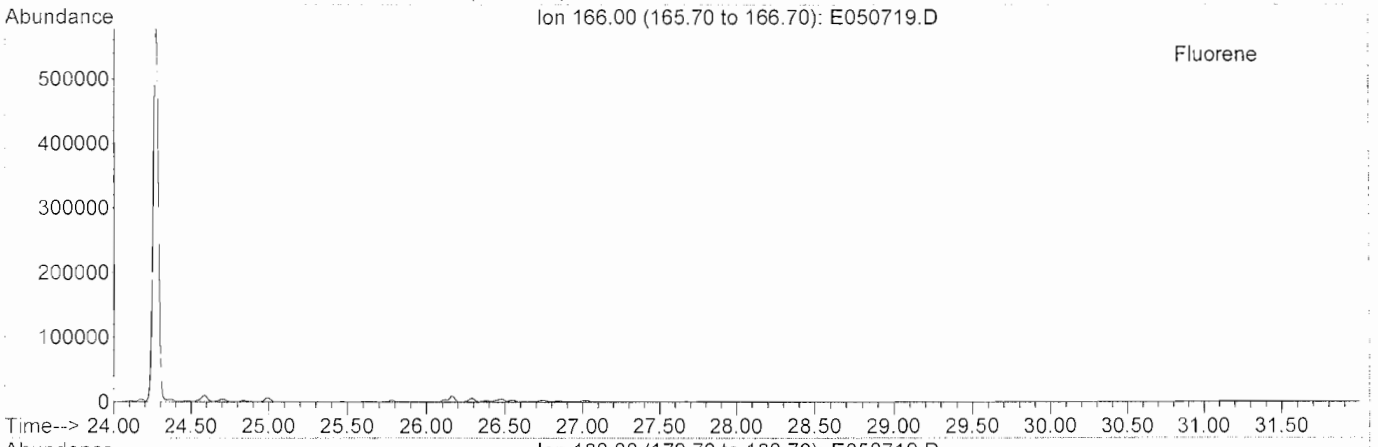
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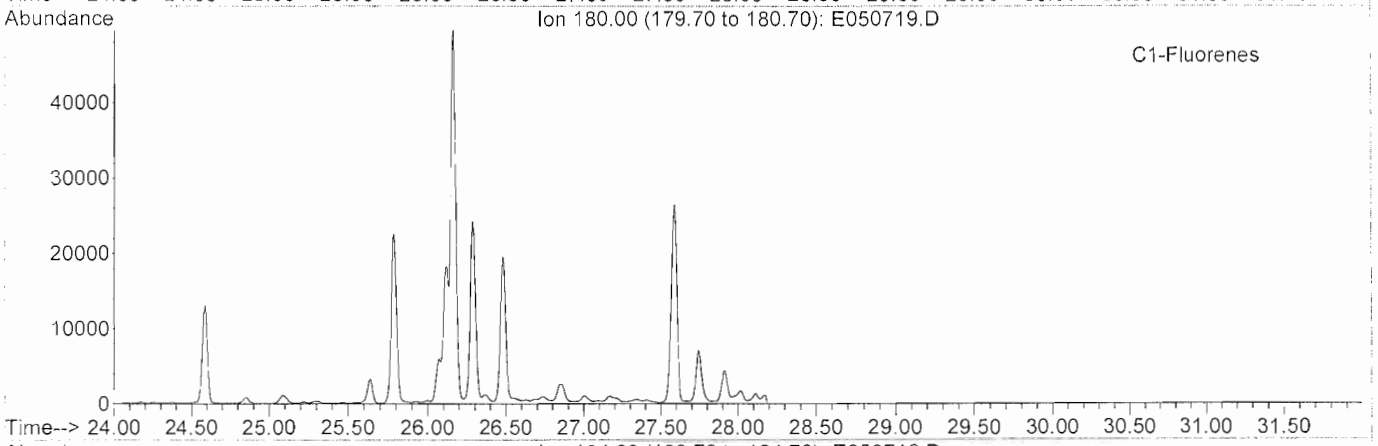


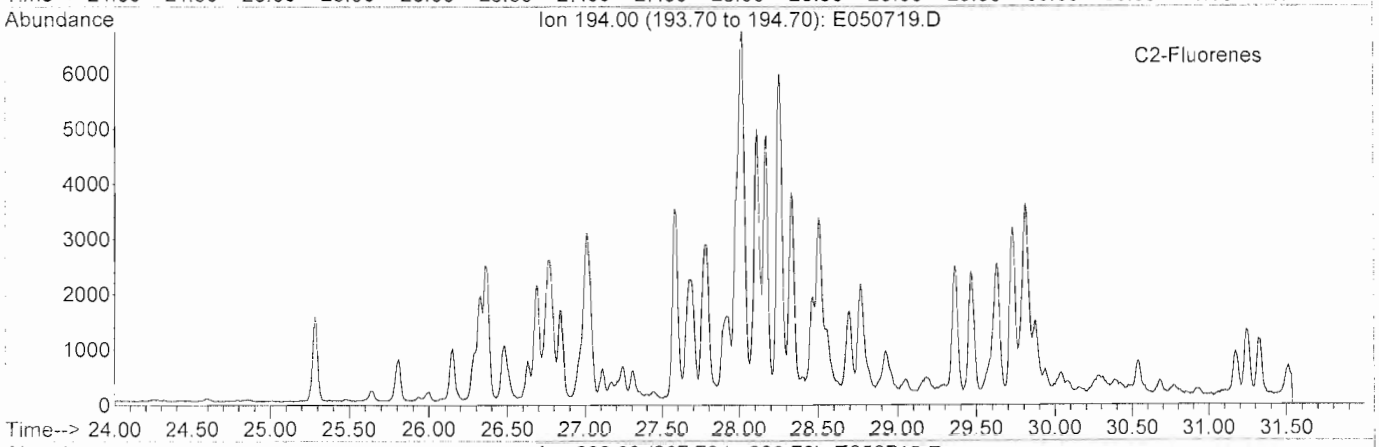
META Environmental, Inc.

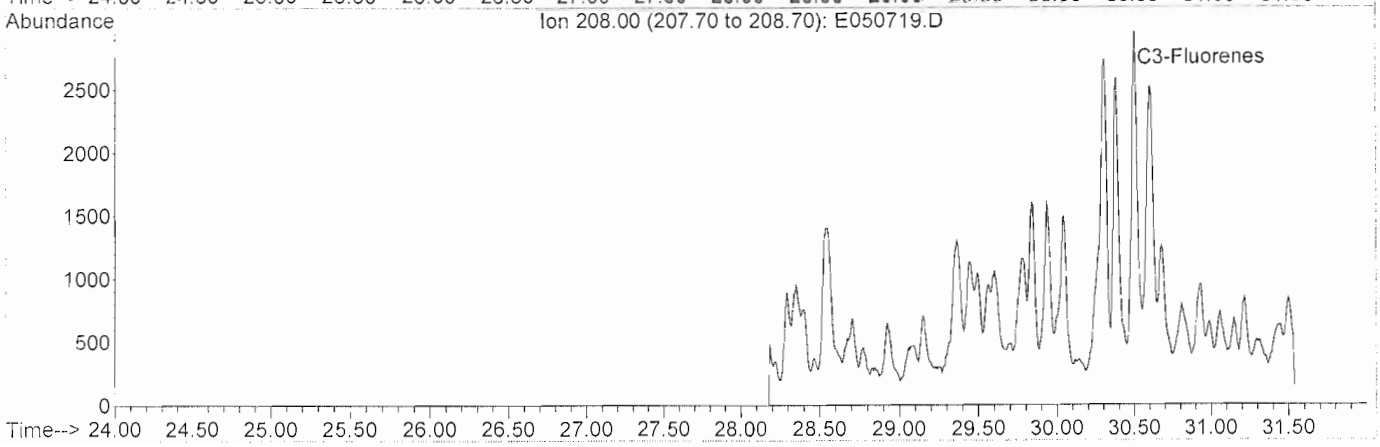
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Misc Info: TM-DP-30 (7-10) 100x





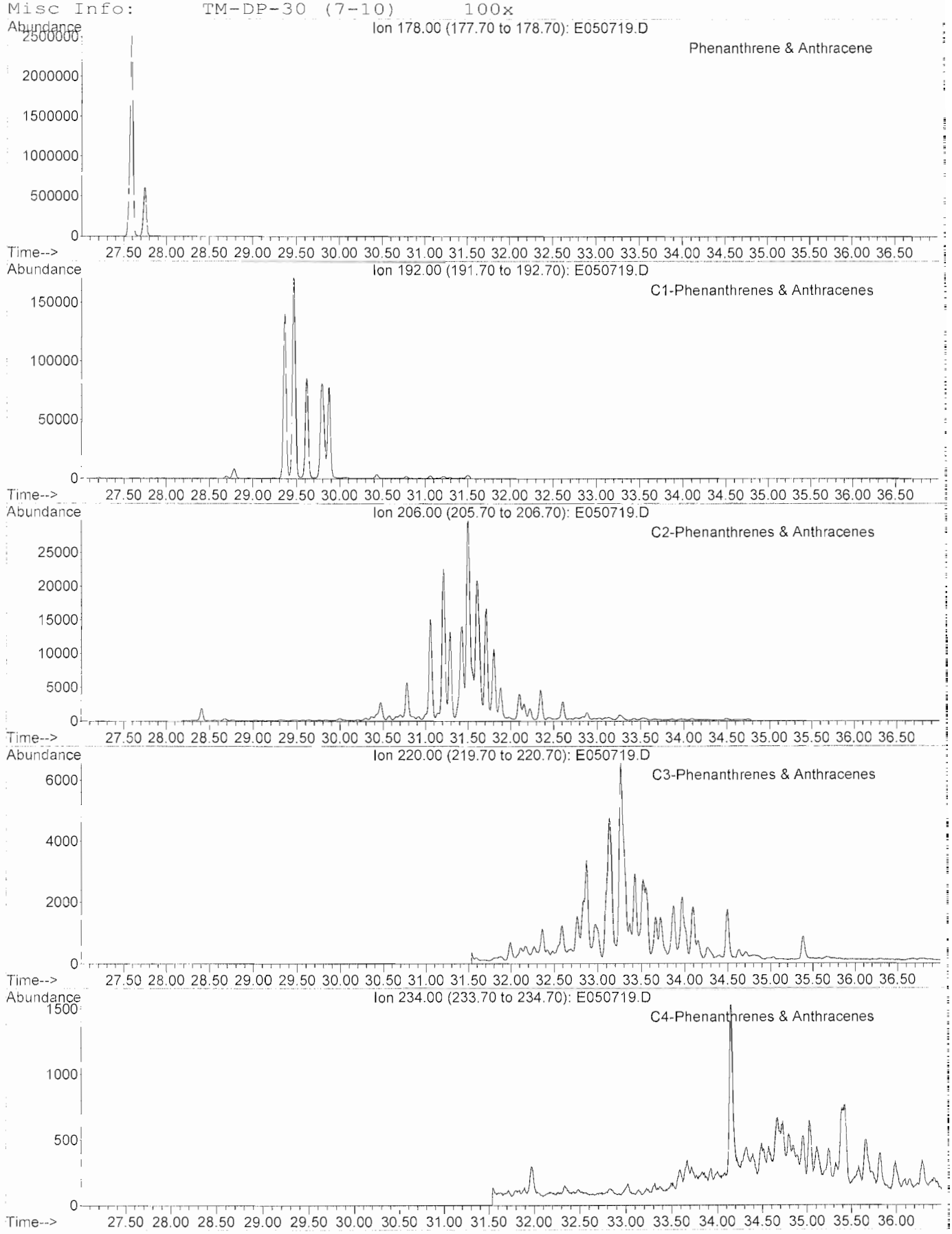




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

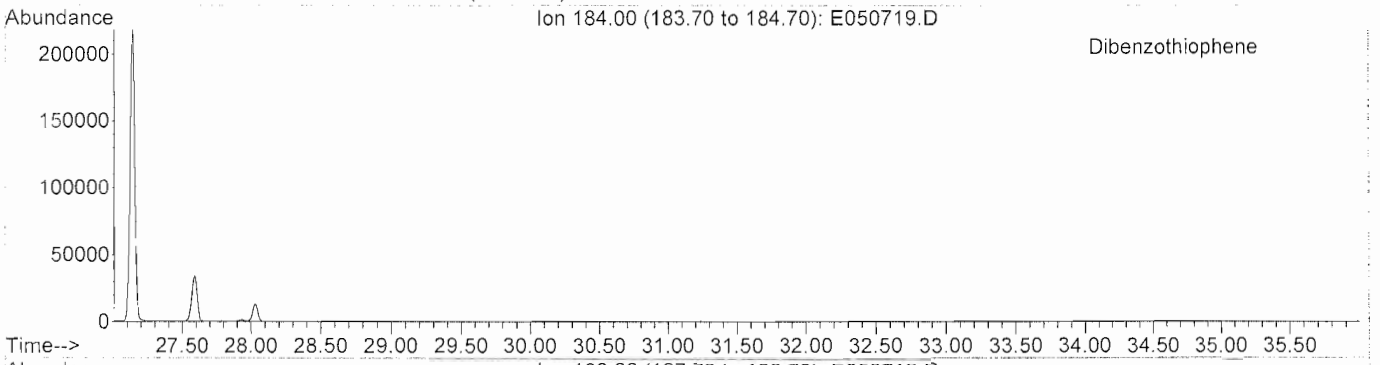
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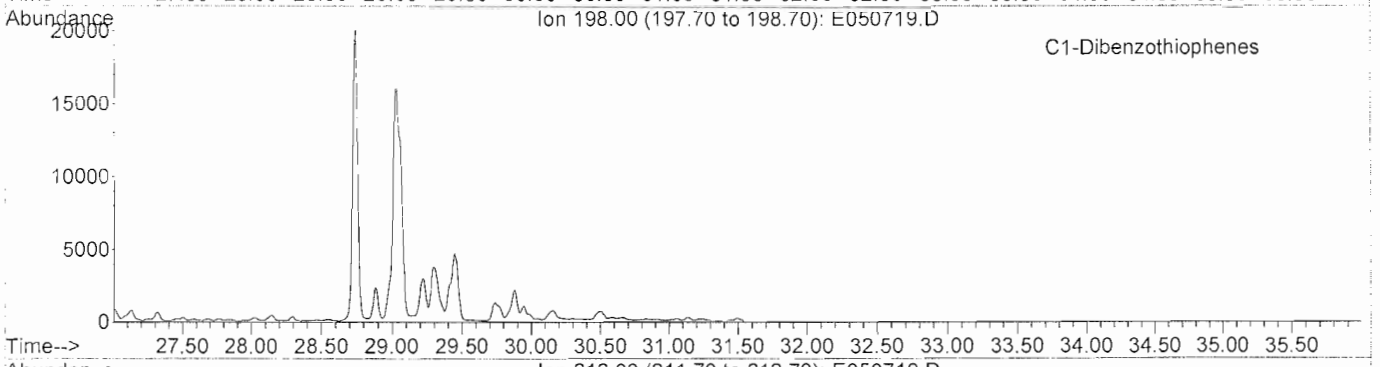


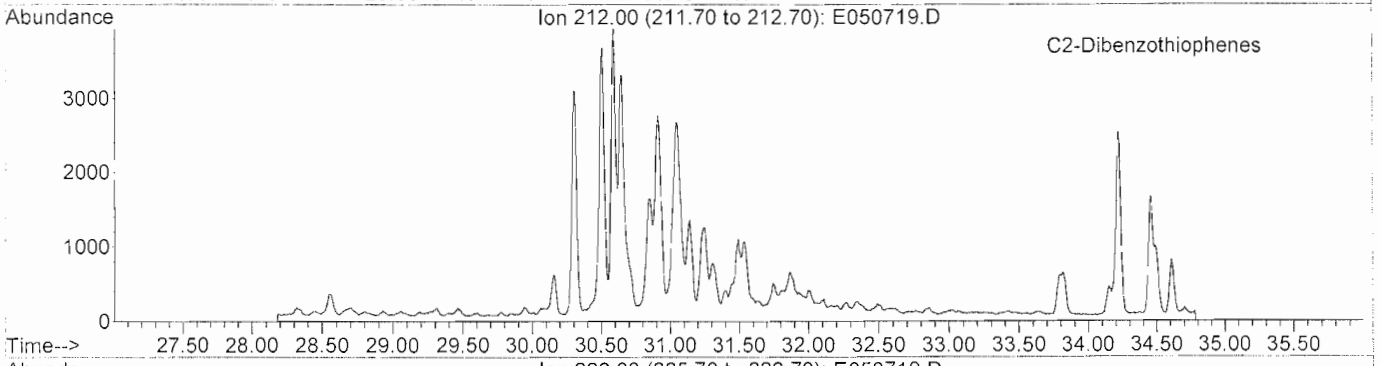
META Environmental, Inc.

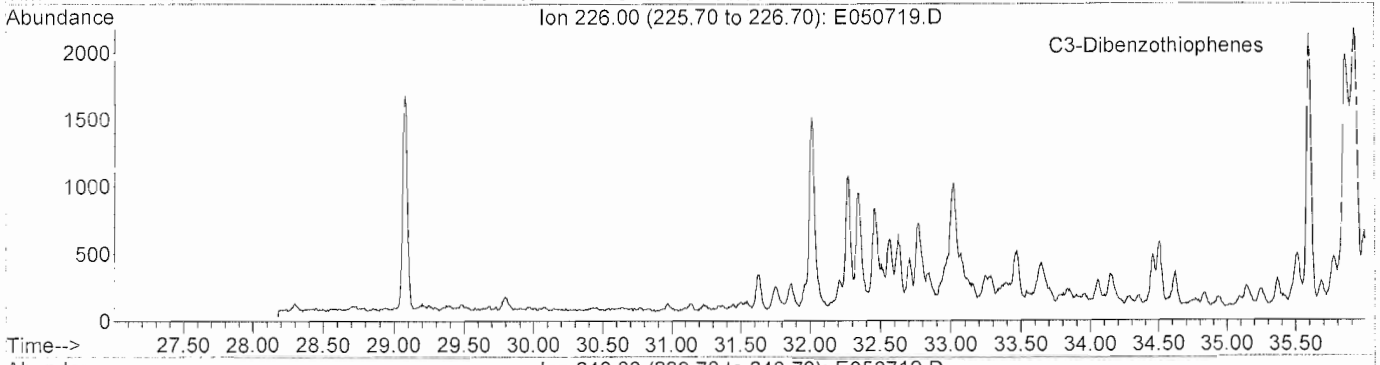
GC/MS EXTRACTED ION CHROMATOGRAM

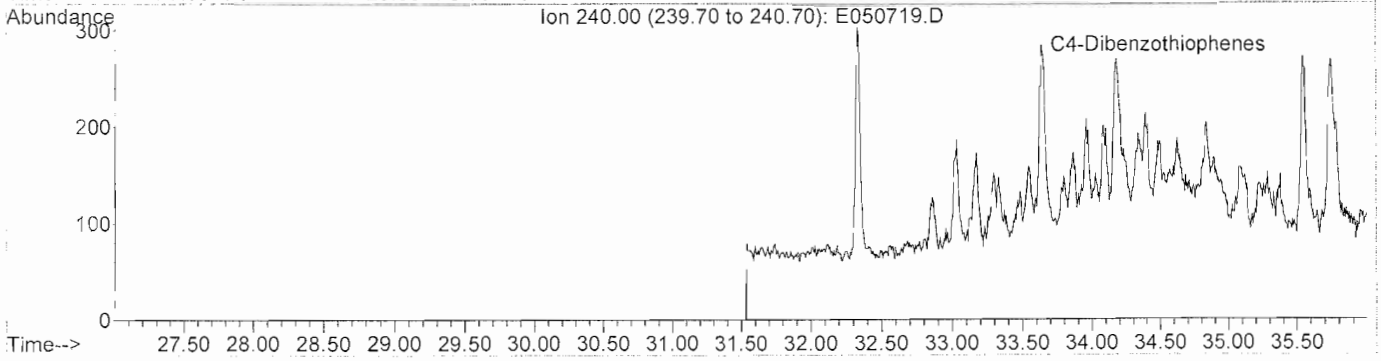
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Date Acquired: 8 May 2010 11:48 am
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Misc Info: TM-DP-30 (7-10) 100x







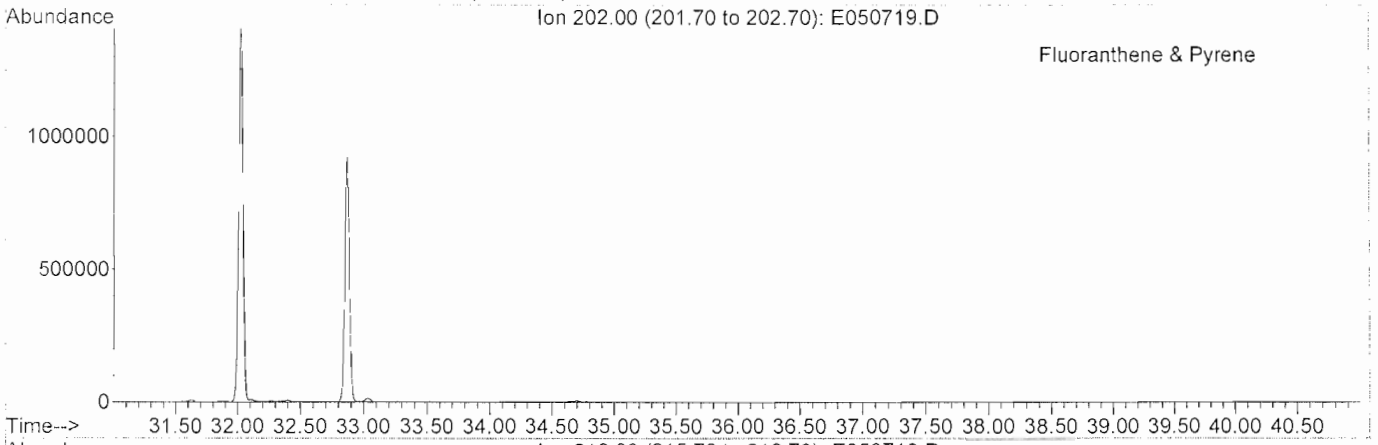


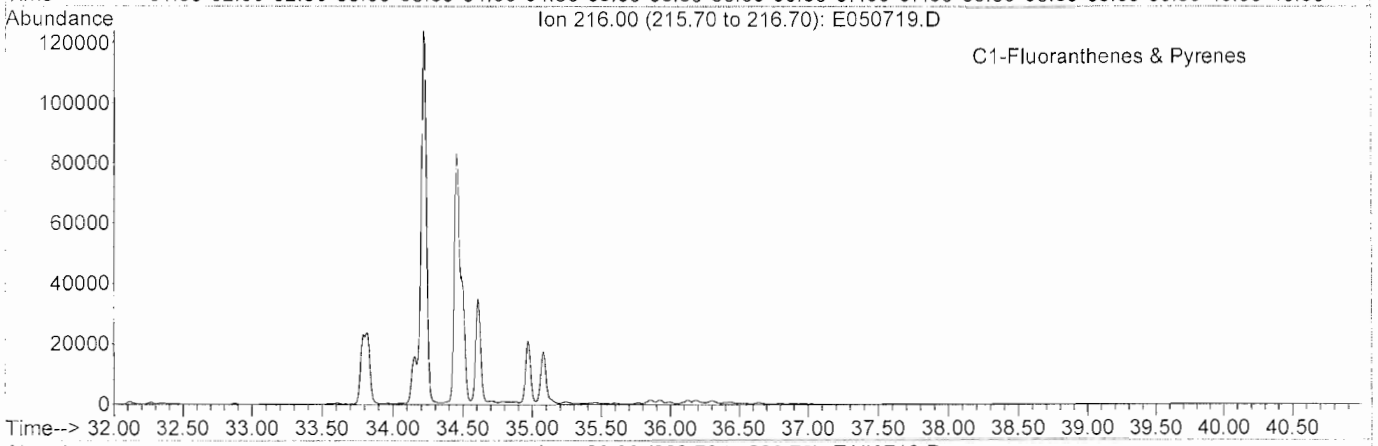


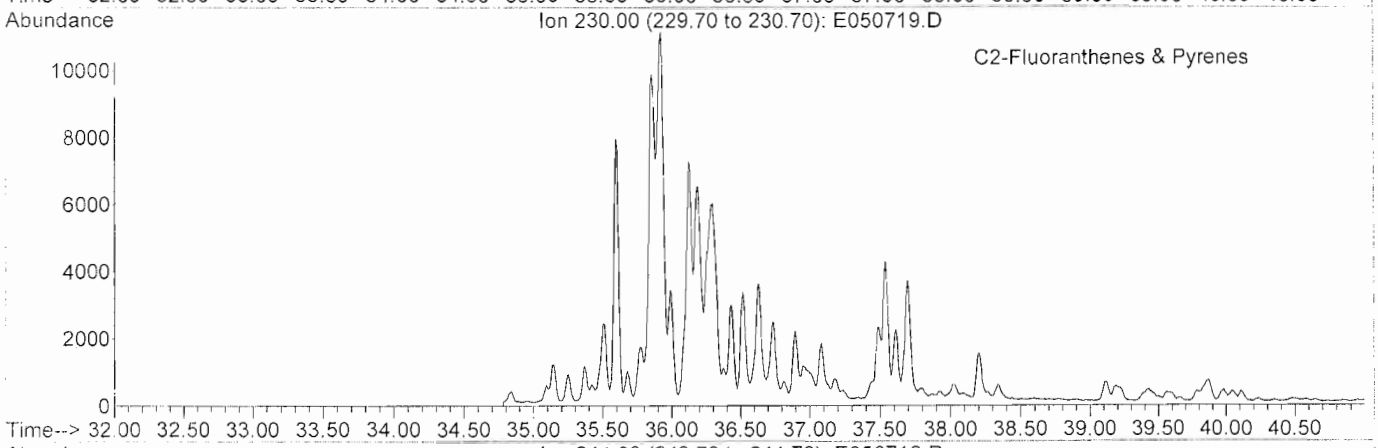
META Environmental, Inc.

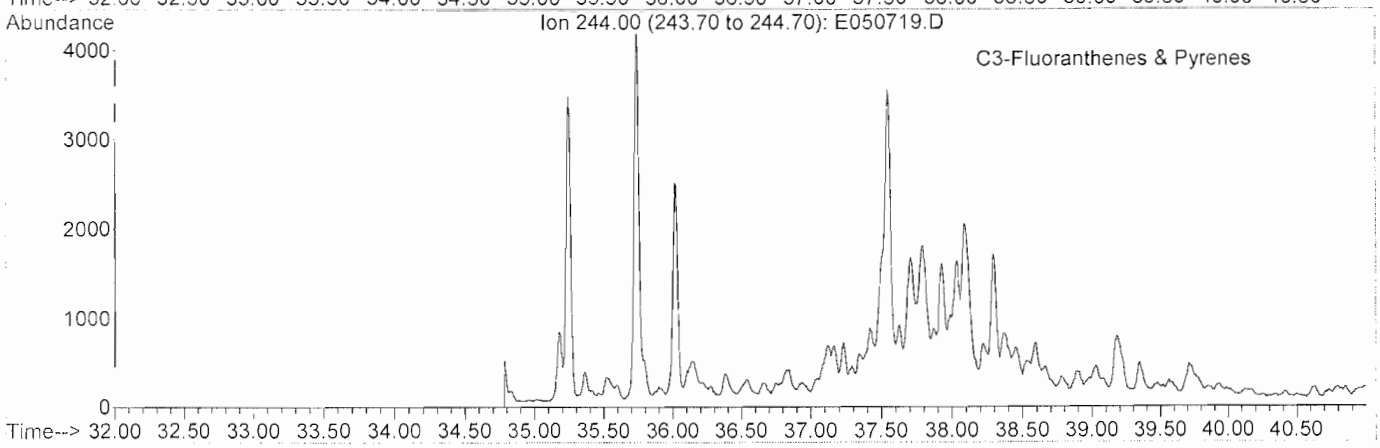
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E100507\E050719.D
Date Acquired: 8 May 2010 11:48 am
Sample Name: CH100430-10-D
Misc Info: TM-DP-30 (7-10) 100x





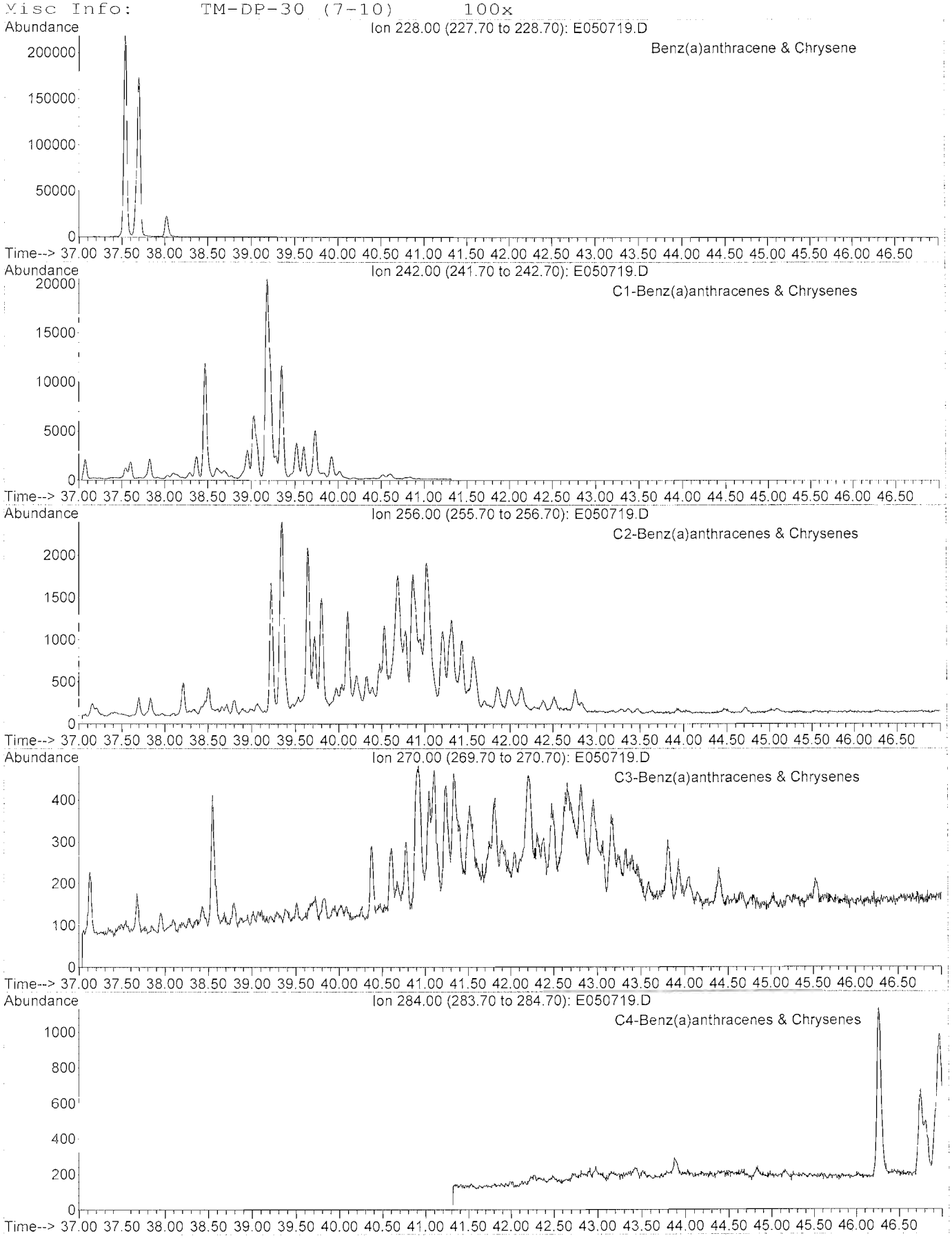




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

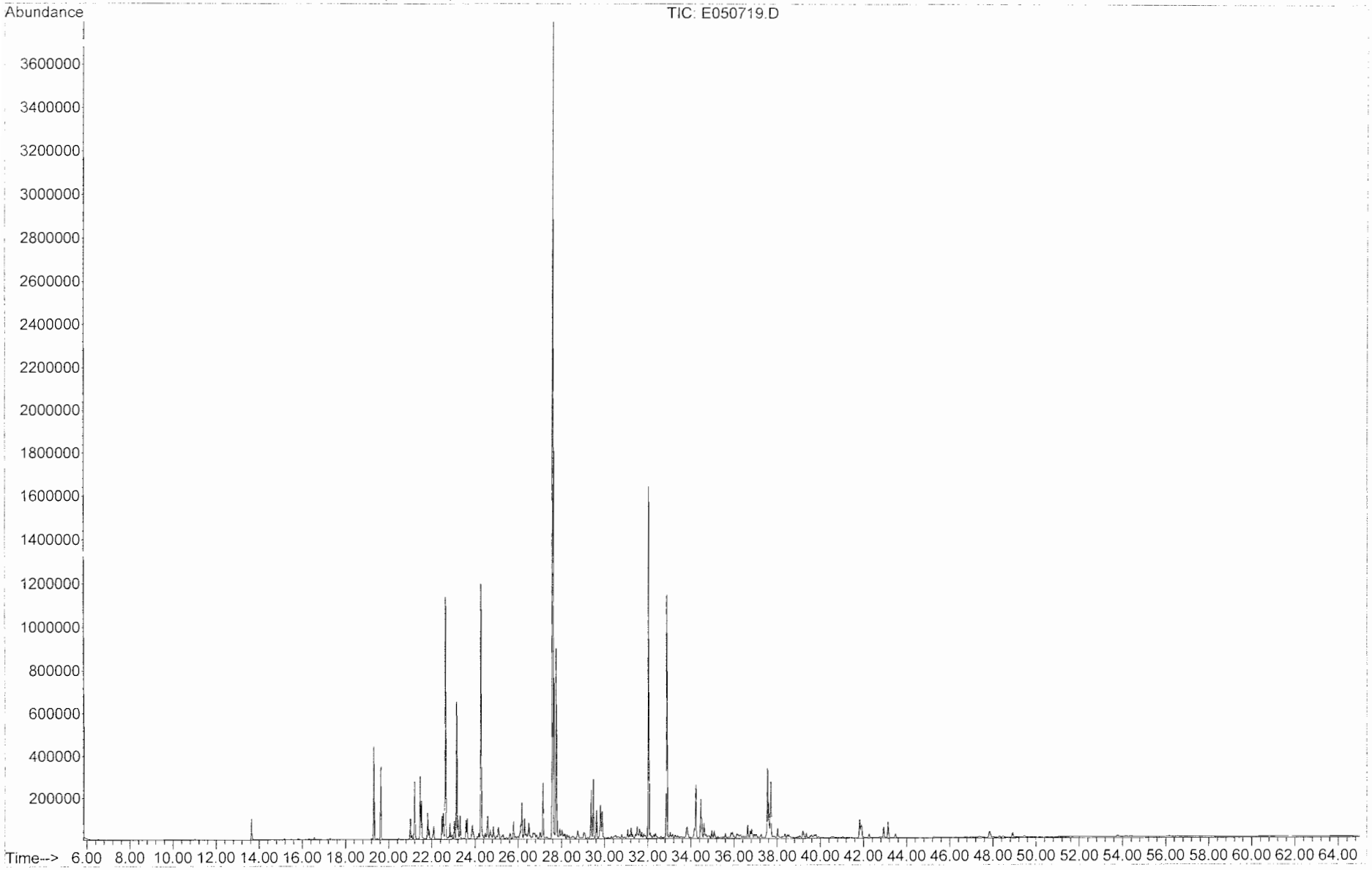
File: J:\1\DATA\E100507\E050719.D
Date Acquired: 8 May 2010 11:48 am
Sample Name: CH100430-10-D
Misc Info: TM-DP-30 (7-10) 100x



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: J:\1\DATA\E100507\E050719.D
Date Acquired: 8 May 2010 11:48 am
Sample Name: CH100430-10-D
Misc Info: TM-DP-30 (7-10) 100x



Appendix F

Test America Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 640-27286-1

Job Description: JEA Kennedy Station

For:
META Environmental
49 Clarendon Street
Watertown, MA 02472

Attention: Mr. Dave Mauro



Approved for release.
Amy Marks
Project Manager II
4/30/2010 3:52 PM

Amy Marks
Project Manager II
amy.marks@testamericainc.com
04/30/2010

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

TestAmerica Tallahassee Florida Department of Health Certification No. E81005
TestAmerica Tampa Florida Department of Health Certification No. E84282

Measurement uncertainty data, as referenced in Section 20.12 of the TestAmerica Tallahassee Quality Assurance Manual, are available upon request

Job Narrative
640-27286-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260C: The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) for batch 640-68096 were outside control limits for the following analytes: Bromomethane and Chloroethane. Results are qualified "J3". Recoveries were biased high with no detections in the associated samples. All batch acceptance criteria were met.

Method 8260C: The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) for batch 640-68154 were outside control limits for the following analytes: Bromomethane and Chloroethane. Results are qualified "J3". Recoveries were biased high with no detections in the associated samples. All batch acceptance criteria were met.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: Surrogates could not be recovered for the following samples due to the level of dilution required: TM-DP-29(8-9) (640-27286-9), TM-DP-30(7-10) (640-27286-10). The 0% recoveries are flagged "J1".

Method 8270C: The method blank in batch 640-67979 contained Bis(2-ethylhexyl) phthalate above the method detection limit (MDL). The target analyte concentration was the less than the Practical Quantitation Limit (PQL); therefore, re-extraction was not performed. Associated sample detections are qualified with a "V".

Method 8270C: The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) for batch 640-67979 were outside control limits for the following analyte: Hexachlorocyclopentadiene. Results are qualified "J3". Recoveries were biased low with no detections in the associated samples. All batch acceptance criteria were met.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) performed on sample OM-DP-08(6-11) (640-27286-1) in batch 640-67979 were outside control limits. The affected recoveries are flagged "J3".

No other analytical or quality issues were noted.

Metals
Method 6010B: The method blank for batch 640-67845 contained Aluminum, Antimony, Iron and Zinc above the method detection limit (MDL). These target analyte concentration was less than the Practical Quantitation Limit (PQL); therefore, re-digestion of samples was not performed. Associated sample detections are qualified with a "V".

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) performed on sample TM-DP-30(7-10) (640-27286-10) in batch 640-67845 were outside control limits for Aluminum, Antimony, Calcium, Iron and Magnesium. The affected recoveries are flagged "J3".

Method 6010B: The precision (RPD) of the batch matrix duplicate performed on sample TM-DP-30(7-10) (640-27286-10) in batch 640-67845 was outside control limits for Calcium and Zinc. The affected RPDs are flagged "J3".

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-1	**OM-DP-08(6-11)**					
Acetone		21	I	52	ug/Kg	8260B
Bis(2-ethylhexyl) phthalate		23	I V	410	ug/Kg	8270C
Aluminum		9600	V	22	mg/Kg	6010B
Arsenic		0.57	I	1.1	mg/Kg	6010B
Barium		8.7		1.1	mg/Kg	6010B
Beryllium		0.092	I	0.44	mg/Kg	6010B
Calcium		430		55	mg/Kg	6010B
Chromium		11		1.1	mg/Kg	6010B
Cobalt		0.80	I	1.1	mg/Kg	6010B
Copper		0.37	I	2.2	mg/Kg	6010B
Iron		2000	V	5.5	mg/Kg	6010B
Lead		4.1		0.55	mg/Kg	6010B
Magnesium		410		55	mg/Kg	6010B
Manganese		12		1.1	mg/Kg	6010B
Nickel		1.8	I	4.4	mg/Kg	6010B
Potassium		330		110	mg/Kg	6010B
Sodium		58	I	110	mg/Kg	6010B
Vanadium		10		1.1	mg/Kg	6010B
Zinc		3.7	V	2.2	mg/Kg	6010B
Mercury		0.020	I	0.024	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-2	**OM-DP-07(2-4)**					
Acetone		82	I	120	ug/Kg	8260B
Anthracene		56	I	770	ug/Kg	8270C
Benzo[a]anthracene		84	I	770	ug/Kg	8270C
Benzo[a]pyrene		110	I	770	ug/Kg	8270C
Benzo[b]fluoranthene		180	I	770	ug/Kg	8270C
Benzo[g,h,i]perylene		110	I	770	ug/Kg	8270C
Benzo[k]fluoranthene		68	I	770	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		180	I V	770	ug/Kg	8270C
Butyl benzyl phthalate		99	I	770	ug/Kg	8270C
Chrysene		140	I	770	ug/Kg	8270C
Fluoranthene		140	I	770	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		87	I	770	ug/Kg	8270C
Phenanthrene		81	I	770	ug/Kg	8270C
Pyrene		130	I	770	ug/Kg	8270C
Aluminum		7100	V	46	mg/Kg	6010B
Antimony		4.6	V	4.6	mg/Kg	6010B
Arsenic		63		2.3	mg/Kg	6010B
Barium		90		2.3	mg/Kg	6010B
Beryllium		0.54	I	0.92	mg/Kg	6010B
Cadmium		0.23	I	1.1	mg/Kg	6010B
Calcium		17000		110	mg/Kg	6010B
Chromium		17		2.3	mg/Kg	6010B
Cobalt		3.8		2.3	mg/Kg	6010B
Copper		22		4.6	mg/Kg	6010B
Iron		14000	V	11	mg/Kg	6010B
Lead		130		1.1	mg/Kg	6010B
Magnesium		1700		110	mg/Kg	6010B
Manganese		78		2.3	mg/Kg	6010B
Nickel		32		9.2	mg/Kg	6010B
Potassium		410		230	mg/Kg	6010B
Sodium		180	I	230	mg/Kg	6010B
Vanadium		120		2.3	mg/Kg	6010B
Zinc		160	V	4.6	mg/Kg	6010B
Mercury		0.065		0.049	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-3	**OM-DP-05(8-12)**					
Acetone		23	I	46	ug/Kg	8260B
Trichlorofluoromethane		2.7	I	4.6	ug/Kg	8260B
Bis(2-ethylhexyl) phthalate		120	I V	400	ug/Kg	8270C
Butyl benzyl phthalate		60	I	400	ug/Kg	8270C
Aluminum		11000	V	21	mg/Kg	6010B
Arsenic		0.64	I	1.1	mg/Kg	6010B
Barium		12		1.1	mg/Kg	6010B
Beryllium		0.18	I	0.42	mg/Kg	6010B
Calcium		110		53	mg/Kg	6010B
Chromium		8.8		1.1	mg/Kg	6010B
Cobalt		0.86	I	1.1	mg/Kg	6010B
Copper		0.42	I	2.1	mg/Kg	6010B
Iron		1800	V	5.3	mg/Kg	6010B
Lead		4.5		0.53	mg/Kg	6010B
Magnesium		450		53	mg/Kg	6010B
Manganese		14		1.1	mg/Kg	6010B
Nickel		3.0	I	4.2	mg/Kg	6010B
Potassium		260		110	mg/Kg	6010B
Selenium		0.43	I	1.1	mg/Kg	6010B
Sodium		97	I	110	mg/Kg	6010B
Vanadium		10		1.1	mg/Kg	6010B
Zinc		3.4	V	2.1	mg/Kg	6010B
640-27286-4	**OM-DP-04(35-40)**					
Carbon disulfide		19		6.3	ug/Kg	8260B
Bis(2-ethylhexyl) phthalate		50	I V	410	ug/Kg	8270C
Aluminum		1400	V	24	mg/Kg	6010B
Antimony		0.97	I V	2.4	mg/Kg	6010B
Arsenic		1.7		1.2	mg/Kg	6010B
Barium		5.3		1.2	mg/Kg	6010B
Beryllium		0.28	I	0.48	mg/Kg	6010B
Cadmium		0.14	I	0.60	mg/Kg	6010B
Calcium		1400		60	mg/Kg	6010B
Chromium		5.3		1.2	mg/Kg	6010B
Cobalt		0.69	I	1.2	mg/Kg	6010B
Copper		0.89	I	2.4	mg/Kg	6010B
Iron		3300	V	6.0	mg/Kg	6010B
Lead		0.65		0.60	mg/Kg	6010B
Magnesium		290		60	mg/Kg	6010B
Manganese		12		1.2	mg/Kg	6010B
Nickel		1.8	I	4.8	mg/Kg	6010B
Potassium		110	I	120	mg/Kg	6010B
Vanadium		5.3		1.2	mg/Kg	6010B
Zinc		2.8	V	2.4	mg/Kg	6010B

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-5	**OM-DP-03(8-12)**					
Acetone		45	I	66	ug/Kg	8260B
Carbon disulfide		3.4	I	6.6	ug/Kg	8260B
Bis(2-ethylhexyl) phthalate		29	I V	430	ug/Kg	8270C
Aluminum		4800	V	23	mg/Kg	6010B
Antimony		1.1	I V	2.3	mg/Kg	6010B
Arsenic		0.78	I	1.2	mg/Kg	6010B
Barium		6.8		1.2	mg/Kg	6010B
Beryllium		0.083	I	0.46	mg/Kg	6010B
Calcium		710		58	mg/Kg	6010B
Chromium		3.8		1.2	mg/Kg	6010B
Cobalt		0.41	I	1.2	mg/Kg	6010B
Copper		0.44	I	2.3	mg/Kg	6010B
Iron		2300	V	5.8	mg/Kg	6010B
Lead		2.9		0.58	mg/Kg	6010B
Magnesium		240		58	mg/Kg	6010B
Manganese		10		1.2	mg/Kg	6010B
Nickel		1.8	I	4.6	mg/Kg	6010B
Potassium		120		120	mg/Kg	6010B
Sodium		170		120	mg/Kg	6010B
Vanadium		4.2		1.2	mg/Kg	6010B
Zinc		2.7	V	2.3	mg/Kg	6010B
Mercury		0.011	I	0.026	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-6	**OM-DP-02(3-5)**					
Acetone		120		59	ug/Kg	8260B
Carbon disulfide		2.1	I	5.9	ug/Kg	8260B
Ethylbenzene		0.74	I	5.9	ug/Kg	8260B
4-Isopropyltoluene		22		5.9	ug/Kg	8260B
4-Methyl-2-pentanone (MIBK)		86		29	ug/Kg	8260B
m-Xylene & p-Xylene		3.8	I	12	ug/Kg	8260B
o-Xylene		1.9	I	5.9	ug/Kg	8260B
sec-Butylbenzene		1.8	I	5.9	ug/Kg	8260B
tert-Butylbenzene		0.64	I	5.9	ug/Kg	8260B
Toluene		2.5	I	5.9	ug/Kg	8260B
1,2,4-Trimethylbenzene		4.5	I	5.9	ug/Kg	8260B
1,3,5-Trimethylbenzene		2.5	I	5.9	ug/Kg	8260B
Acenaphthene		75	I	380	ug/Kg	8270C
Anthracene		84	I	380	ug/Kg	8270C
Benzo[a]anthracene		68	I	380	ug/Kg	8270C
Benzo[a]pyrene		43	I	380	ug/Kg	8270C
Benzo[b]fluoranthene		84	I	380	ug/Kg	8270C
Benzo[g,h,i]perylene		42	I	380	ug/Kg	8270C
Benzo[k]fluoranthene		41	I	380	ug/Kg	8270C
Bis(2-chloroethoxy)methane		73	I	380	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		110	I V	380	ug/Kg	8270C
Chrysene		160	I	380	ug/Kg	8270C
Diethyl phthalate		170	I	380	ug/Kg	8270C
Fluoranthene		280	I	380	ug/Kg	8270C
Fluorene		93	I	380	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		25	I	380	ug/Kg	8270C
2-Methylnaphthalene		240	I	380	ug/Kg	8270C
Naphthalene		63	I	380	ug/Kg	8270C
Phenanthrene		390		380	ug/Kg	8270C
Pyrene		220	I	380	ug/Kg	8270C
Aluminum		6900	V	21	mg/Kg	6010B
Antimony		0.86	I V	2.1	mg/Kg	6010B
Arsenic		1.8		1.0	mg/Kg	6010B
Barium		190		1.0	mg/Kg	6010B
Beryllium		0.57		0.41	mg/Kg	6010B
Cadmium		0.57		0.52	mg/Kg	6010B
Calcium		49000		52	mg/Kg	6010B
Chromium		17		1.0	mg/Kg	6010B
Cobalt		2.7		1.0	mg/Kg	6010B
Copper		8.5		2.1	mg/Kg	6010B
Iron		5600	V	5.2	mg/Kg	6010B
Lead		120		0.52	mg/Kg	6010B
Magnesium		2000		52	mg/Kg	6010B
Manganese		330		1.0	mg/Kg	6010B
Nickel		10		4.1	mg/Kg	6010B
Potassium		610		100	mg/Kg	6010B
Sodium		410		100	mg/Kg	6010B
Vanadium		26		1.0	mg/Kg	6010B

EXECUTIVE SUMMARY - Detections

Client: META Environmental Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
Zinc		620	V	2.1	mg/Kg	6010B
Mercury		0.030		0.024	mg/Kg	7471A
640-27286-7	**TM-DP-26(3-4)**					
Acetone		22	I	61	ug/Kg	8260B
Benzene		5.7	I	6.1	ug/Kg	8260B
Ethylbenzene		0.38	I	6.1	ug/Kg	8260B
m-Xylene & p-Xylene		2.2	I	12	ug/Kg	8260B
o-Xylene		0.56	I	6.1	ug/Kg	8260B
Acenaphthene		720		400	ug/Kg	8270C
Anthracene		140	I	400	ug/Kg	8270C
Benzo[a]anthracene		62	I	400	ug/Kg	8270C
Benzo[a]pyrene		23	I	400	ug/Kg	8270C
Benzo[b]fluoranthene		33	I	400	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		26	I V	400	ug/Kg	8270C
Chrysene		65	I	400	ug/Kg	8270C
Dibenzofuran		65	I	400	ug/Kg	8270C
Fluoranthene		600		400	ug/Kg	8270C
Fluorene		510		400	ug/Kg	8270C
Phenanthrene		1200		400	ug/Kg	8270C
Pyrene		370	I	400	ug/Kg	8270C
Aluminum		680	V	22	mg/Kg	6010B
Arsenic		1.4		1.1	mg/Kg	6010B
Barium		3.0		1.1	mg/Kg	6010B
Calcium		170		56	mg/Kg	6010B
Chromium		1.9		1.1	mg/Kg	6010B
Cobalt		0.48	I	1.1	mg/Kg	6010B
Iron		840	V	5.6	mg/Kg	6010B
Lead		1.7		0.56	mg/Kg	6010B
Magnesium		58		56	mg/Kg	6010B
Manganese		13		1.1	mg/Kg	6010B
Nickel		0.50	I	4.5	mg/Kg	6010B
Potassium		31	I	110	mg/Kg	6010B
Vanadium		2.4		1.1	mg/Kg	6010B
Zinc		1.7	I V	2.2	mg/Kg	6010B
Mercury		0.012	I	0.025	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: META Environmental Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-8	**TM-DP-28(7-11)**					
Acenaphthene		730		410	ug/Kg	8270C
Anthracene		150	I	410	ug/Kg	8270C
Benzo[a]anthracene		69	I	410	ug/Kg	8270C
Benzo[a]pyrene		26	I	410	ug/Kg	8270C
Benzo[b]fluoranthene		36	I	410	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		29	I V	410	ug/Kg	8270C
Chrysene		68	I	410	ug/Kg	8270C
Dibenzofuran		55	I	410	ug/Kg	8270C
Fluoranthene		630		410	ug/Kg	8270C
Fluorene		530		410	ug/Kg	8270C
Phenanthrene		1200		410	ug/Kg	8270C
Pyrene		370	I	410	ug/Kg	8270C
Aluminum		490	V	21	mg/Kg	6010B
Arsenic		0.39	I	1.0	mg/Kg	6010B
Barium		2.4		1.0	mg/Kg	6010B
Calcium		140		52	mg/Kg	6010B
Chromium		1.4		1.0	mg/Kg	6010B
Cobalt		0.26	I	1.0	mg/Kg	6010B
Iron		980	V	5.2	mg/Kg	6010B
Lead		0.96		0.52	mg/Kg	6010B
Magnesium		42	I	52	mg/Kg	6010B
Manganese		11		1.0	mg/Kg	6010B
Nickel		0.28	I	4.2	mg/Kg	6010B
Potassium		22	I	100	mg/Kg	6010B
Vanadium		1.2		1.0	mg/Kg	6010B
Zinc		1.6	I V	2.1	mg/Kg	6010B

EXECUTIVE SUMMARY - Detections

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-9	**TM-DP-29(8-9)**					
Acetone		47	I	62	ug/Kg	8260B
Isopropylbenzene		5.2	I	6.2	ug/Kg	8260B
4-Isopropyltoluene		2.2	I	6.2	ug/Kg	8260B
n-Butylbenzene		2.4	I	6.2	ug/Kg	8260B
1,2,4-Trimethylbenzene		3.3	I	6.2	ug/Kg	8260B
1,3,5-Trimethylbenzene		1.9	I	6.2	ug/Kg	8260B
Acenaphthene		79000		20000	ug/Kg	8270C
Anthracene		66000		20000	ug/Kg	8270C
Benzo[a]anthracene		18000	I	20000	ug/Kg	8270C
Benzo[a]pyrene		5600	I	20000	ug/Kg	8270C
Benzo[b]fluoranthene		6700	I	20000	ug/Kg	8270C
Benzo[g,h,i]perylene		2100	I	20000	ug/Kg	8270C
Benzo[k]fluoranthene		4600	I	20000	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		810	I V	20000	ug/Kg	8270C
Chrysene		15000	I	20000	ug/Kg	8270C
Dibenzofuran		76000		20000	ug/Kg	8270C
Fluoranthene		130000		20000	ug/Kg	8270C
Fluorene		96000		20000	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		2000	I	20000	ug/Kg	8270C
2-Methylnaphthalene		88000		20000	ug/Kg	8270C
Naphthalene		91000		20000	ug/Kg	8270C
Phenanthrene		350000		20000	ug/Kg	8270C
Pyrene		86000		20000	ug/Kg	8270C
Aluminum		3100	V	21	mg/Kg	6010B
Antimony		0.39	I V	2.1	mg/Kg	6010B
Arsenic		1.9		1.0	mg/Kg	6010B
Barium		9.9		1.0	mg/Kg	6010B
Beryllium		0.23	I	0.42	mg/Kg	6010B
Calcium		23000		52	mg/Kg	6010B
Chromium		5.8		1.0	mg/Kg	6010B
Cobalt		0.83	I	1.0	mg/Kg	6010B
Copper		5.6		2.1	mg/Kg	6010B
Iron		4500	V	5.2	mg/Kg	6010B
Lead		5.5		0.52	mg/Kg	6010B
Magnesium		830		52	mg/Kg	6010B
Manganese		31		1.0	mg/Kg	6010B
Nickel		1.6	I	4.2	mg/Kg	6010B
Potassium		270		100	mg/Kg	6010B
Sodium		52	I	100	mg/Kg	6010B
Vanadium		6.2		1.0	mg/Kg	6010B
Zinc		17	V	2.1	mg/Kg	6010B
Mercury		0.50		0.026	mg/Kg	7471A

EXECUTIVE SUMMARY - Detections

Client: META Environmental Job Number: 640-27286-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27286-10	**TM-DP-30(7-10)**					
Acetone		62	I	110	ug/Kg	8260B
Acenaphthene		27000		14000	ug/Kg	8270C
Anthracene		24000		14000	ug/Kg	8270C
Benzo[a]anthracene		9800	I	14000	ug/Kg	8270C
Benzo[a]pyrene		3400	I	14000	ug/Kg	8270C
Benzo[b]fluoranthene		4300	I	14000	ug/Kg	8270C
Benzo[g,h,i]perylene		1200	I	14000	ug/Kg	8270C
Benzo[k]fluoranthene		2500	I	14000	ug/Kg	8270C
Chrysene		8700	I	14000	ug/Kg	8270C
Dibenzofuran		19000		14000	ug/Kg	8270C
Fluoranthene		61000		14000	ug/Kg	8270C
Fluorene		35000		14000	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		1100	I	14000	ug/Kg	8270C
2-Methylnaphthalene		6900	I	14000	ug/Kg	8270C
Phenanthrene		130000		14000	ug/Kg	8270C
Pyrene		44000		14000	ug/Kg	8270C
Aluminum		8900	V	38	mg/Kg	6010B
Arsenic		3.3		1.9	mg/Kg	6010B
Barium		18		1.9	mg/Kg	6010B
Beryllium		0.46	I	0.75	mg/Kg	6010B
Calcium		34000		94	mg/Kg	6010B
Chromium		15		1.9	mg/Kg	6010B
Cobalt		2.2		1.9	mg/Kg	6010B
Copper		16		3.8	mg/Kg	6010B
Iron		9000	V	9.4	mg/Kg	6010B
Lead		11		0.94	mg/Kg	6010B
Magnesium		2100		94	mg/Kg	6010B
Manganese		64		1.9	mg/Kg	6010B
Nickel		4.2	I	7.5	mg/Kg	6010B
Potassium		720		190	mg/Kg	6010B
Sodium		180	I	190	mg/Kg	6010B
Vanadium		15		1.9	mg/Kg	6010B
Zinc		42	V	3.8	mg/Kg	6010B
Mercury		0.28		0.041	mg/Kg	7471A

METHOD SUMMARY

Client: META Environmental

Job Number: 640-27286-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Volatile Organic Compounds (GC/MS)	TAL TAL	SW846 8260B	
Closed System Purge and Trap	TAL TAL		SW846 5035
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL TAL	SW846 8270C	
Ultrasonic Extraction	TAL TAL		SW846 3550B
Metals (ICP)	TAL TAL	SW846 6010B	
Preparation, Metals	TAL TAL		SW846 3050B
Mercury (CVAA)	TAL TAM	SW846 7471A	
Preparation, Mercury	TAL TAM		SW846 7471A

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: META Environmental

Job Number: 640-27286-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
640-27286-1	OM-DP-08(6-11)	Solid	04/16/2010 0945	04/17/2010 1215
640-27286-2	OM-DP-07(2-4)	Solid	04/16/2010 1020	04/17/2010 1215
640-27286-3	OM-DP-05(8-12)	Solid	04/16/2010 1145	04/17/2010 1215
640-27286-4	OM-DP-04(35-40)	Solid	04/16/2010 1250	04/17/2010 1215
640-27286-5	OM-DP-03(8-12)	Solid	04/16/2010 1420	04/17/2010 1215
640-27286-6	OM-DP-02(3-5)	Solid	04/16/2010 1545	04/17/2010 1215
640-27286-7	TM-DP-26(3-4)	Solid	04/16/2010 1640	04/17/2010 1215
640-27286-8	TM-DP-28(7-11)	Solid	04/16/2010 1725	04/17/2010 1215
640-27286-9	TM-DP-29(8-9)	Solid	04/16/2010 1750	04/17/2010 1215
640-27286-10	TM-DP-30(7-10)	Solid	04/16/2010 1825	04/17/2010 1215

SAMPLE RESULTS

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-08(6-11)**

Lab Sample ID: 640-27286-1 | Date Sampled: 04/16/2010 0945
Client Matrix: Solid | % Moisture: 21.4 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68012		Lab File ID:	1F042311.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	04/23/2010 1505			Final Weight/Volume:	5 g
Date Prepared:	04/22/2010 1236				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		21	I	14	52
Benzene		0.27	U	0.27	5.2
Bromobenzene		0.72	U	0.72	5.2
Bromoform		1.1	U	1.1	5.2
Bromomethane		2.5	U J3	2.5	10
2-Butanone (MEK)		17	U	17	26
Carbon disulfide		0.55	U	0.55	5.2
Carbon tetrachloride		0.41	U	0.41	5.2
Chlorobenzene		0.58	U	0.58	5.2
Chlorobromomethane		1.2	U	1.2	5.2
Chlorodibromomethane		0.79	U	0.79	5.2
Chloroethane		0.76	U J3	0.76	10
Chloroform		0.47	U	0.47	5.2
Chloromethane		0.27	U	0.27	10
2-Chlorotoluene		0.55	U	0.55	5.2
4-Chlorotoluene		0.62	U	0.62	5.2
cis-1,2-Dichloroethene		0.61	U	0.61	5.2
cis-1,3-Dichloropropene		0.71	U	0.71	5.2
1,2-Dibromo-3-Chloropropane		1.5	U	1.5	10
Dibromomethane		2.2	U	2.2	5.2
Dichlorobromomethane		1.0	U	1.0	5.2
Dichlorodifluoromethane		1.0	U	1.0	5.2
1,1-Dichloroethane		0.41	U	0.41	5.2
1,2-Dichloroethane		0.75	U	0.75	5.2
1,1-Dichloroethene		1.5	U	1.5	5.2
1,2-Dichloropropane		1.6	U	1.6	5.2
1,3-Dichloropropane		1.0	U	1.0	5.2
2,2-Dichloropropane		0.64	U	0.64	5.2
1,1-Dichloropropene		0.91	U	0.91	5.2
Ethylbenzene		0.32	U	0.32	5.2
Ethylene Dibromide		1.4	U	1.4	5.2
Hexachlorobutadiene		0.75	U	0.75	5.2
2-Hexanone		10	U	10	26
Isopropylbenzene		0.48	U	0.48	5.2
4-Isopropyltoluene		0.44	U	0.44	5.2
Methylene Chloride		1.0	U	1.0	5.2
4-Methyl-2-pentanone (MIBK)		12	U	12	26
m-Xylene & p-Xylene		0.74	U	0.74	10
n-Butylbenzene		0.47	U	0.47	5.2
N-Propylbenzene		0.68	U	0.68	5.2
o-Xylene		0.41	U	0.41	5.2
sec-Butylbenzene		0.68	U	0.68	5.2
Styrene		0.44	U	0.44	5.2
tert-Butylbenzene		0.44	U	0.44	5.2
1,1,1,2-Tetrachloroethane		0.65	U	0.65	5.2
1,1,2,2-Tetrachloroethane		1.0	U	1.0	5.2

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-08(6-11)**

Lab Sample ID: 640-27286-1 | Date Sampled: 04/16/2010 0945
Client Matrix: Solid | % Moisture: 21.4 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68012		Lab File ID:	1F042311.D
Dilution:	1.0			Initial Weight/Volume:	6.12 g
Date Analyzed:	04/23/2010 1505			Final Weight/Volume:	5 g
Date Prepared:	04/22/2010 1236				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.65	U	0.65	5.2
Toluene		0.62	U	0.62	5.2
trans-1,2-Dichloroethene		0.47	U	0.47	5.2
trans-1,3-Dichloropropene		1.4	U	1.4	5.2
1,2,3-Trichlorobenzene		0.63	U	0.63	5.2
1,1,1-Trichloroethane		1.1	U	1.1	5.2
1,1,2-Trichloroethane		0.91	U	0.91	5.2
Trichloroethene		0.89	U	0.89	5.2
Trichlorofluoromethane		1.5	U	1.5	5.2
1,2,3-Trichloropropane		1.0	U	1.0	5.2
1,2,4-Trimethylbenzene		0.57	U	0.57	5.2
1,3,5-Trimethylbenzene		0.50	U	0.50	5.2
Vinyl chloride		0.62	U	0.62	10
Xylenes, Total		0.74	U	0.74	10

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		67 - 130
Dibromofluoromethane	92		61 - 130
Toluene-d8 (Surr)	99		70 - 130

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-07(2-4)**

Lab Sample ID: 640-27286-2 | Date Sampled: 04/16/2010 1020
Client Matrix: Solid | % Moisture: 57.4 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 640-68096 | Instrument ID: VMF
Preparation: 5035 | Prep Batch: 640-68065 | Lab File ID: 1F042312.D
Dilution: 1.0 | Initial Weight/Volume: 4.43 g
Date Analyzed: 04/23/2010 1537 | Final Weight/Volume: 5 g
Date Prepared: 04/23/2010 1200

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		82	I	30	120
Benzene		0.61	U	0.61	12
Bromobenzene		1.6	U	1.6	12
Bromoform		2.6	U	2.6	12
Bromomethane		5.6	U J3	5.6	23
2-Butanone (MEK)		38	U	38	59
Carbon disulfide		1.2	U	1.2	12
Carbon tetrachloride		0.91	U	0.91	12
Chlorobenzene		1.3	U	1.3	12
Chlorobromomethane		2.8	U	2.8	12
Chlorodibromomethane		1.8	U	1.8	12
Chloroethane		1.7	U J3	1.7	23
Chloroform		1.1	U	1.1	12
Chloromethane		0.61	U	0.61	23
2-Chlorotoluene		1.2	U	1.2	12
4-Chlorotoluene		1.4	U	1.4	12
cis-1,2-Dichloroethene		1.4	U	1.4	12
cis-1,3-Dichloropropene		1.6	U	1.6	12
1,2-Dibromo-3-Chloropropane		3.3	U	3.3	23
Dibromomethane		4.9	U	4.9	12
Dichlorobromomethane		2.3	U	2.3	12
Dichlorodifluoromethane		2.3	U	2.3	12
1,1-Dichloroethane		0.91	U	0.91	12
1,2-Dichloroethane		1.7	U	1.7	12
1,1-Dichloroethene		3.3	U	3.3	12
1,2-Dichloropropane		3.5	U	3.5	12
1,3-Dichloropropane		2.3	U	2.3	12
2,2-Dichloropropane		1.5	U	1.5	12
1,1-Dichloropropene		2.1	U	2.1	12
Ethylbenzene		0.73	U	0.73	12
Ethylene Dibromide		3.0	U	3.0	12
Hexachlorobutadiene		1.7	U	1.7	12
2-Hexanone		23	U	23	59
Isopropylbenzene		1.1	U	1.1	12
4-Isopropyltoluene		0.99	U	0.99	12
Methylene Chloride		2.3	U	2.3	12
4-Methyl-2-pentanone (MIBK)		28	U	28	59
m-Xylene & p-Xylene		1.7	U	1.7	23
n-Butylbenzene		1.1	U	1.1	12
N-Propylbenzene		1.5	U	1.5	12
o-Xylene		0.91	U	0.91	12
sec-Butylbenzene		1.5	U	1.5	12
Styrene		0.99	U	0.99	12
tert-Butylbenzene		0.99	U	0.99	12
1,1,1,2-Tetrachloroethane		1.5	U	1.5	12
1,1,2,2-Tetrachloroethane		2.3	U	2.3	12

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-07(2-4)**

Lab Sample ID: 640-27286-2 | Date Sampled: 04/16/2010 1020
Client Matrix: Solid | % Moisture: 57.4 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042312.D
Dilution:	1.0			Initial Weight/Volume:	4.43 g
Date Analyzed:	04/23/2010 1537			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		1.5	U	1.5	12
Toluene		1.4	U	1.4	12
trans-1,2-Dichloroethene		1.1	U	1.1	12
trans-1,3-Dichloropropene		3.0	U	3.0	12
1,2,3-Trichlorobenzene		1.4	U	1.4	12
1,1,1-Trichloroethane		2.6	U	2.6	12
1,1,2-Trichloroethane		2.1	U	2.1	12
Trichloroethene		2.0	U	2.0	12
Trichlorofluoromethane		3.3	U	3.3	12
1,2,3-Trichloropropane		2.3	U	2.3	12
1,2,4-Trimethylbenzene		1.3	U	1.3	12
1,3,5-Trimethylbenzene		1.1	U	1.1	12
Vinyl chloride		1.4	U	1.4	23
Xylenes, Total		1.7	U	1.7	23

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	91		67 - 130
Dibromofluoromethane	91		61 - 130
Toluene-d8 (Surr)	95		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-05(8-12)**

Lab Sample ID: 640-27286-3
Client Matrix: Solid
% Moisture: 18.1

Date Sampled: 04/16/2010 1145
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/26/2010 1611
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68154
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042614.D
Initial Weight/Volume: 6.61 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		23	I	12	46
Benzene		0.24	U	0.24	4.6
Bromobenzene		0.64	U	0.64	4.6
Bromoform		1.0	U	1.0	4.6
Bromomethane		2.2	U J3	2.2	9.2
2-Butanone (MEK)		15	U	15	23
Carbon disulfide		0.49	U	0.49	4.6
Carbon tetrachloride		0.36	U	0.36	4.6
Chlorobenzene		0.52	U	0.52	4.6
Chlorobromomethane		1.1	U	1.1	4.6
Chlorodibromomethane		0.70	U	0.70	4.6
Chloroethane		0.67	U J3	0.67	9.2
Chloroform		0.42	U	0.42	4.6
Chloromethane		0.24	U	0.24	9.2
2-Chlorotoluene		0.49	U	0.49	4.6
4-Chlorotoluene		0.55	U	0.55	4.6
cis-1,2-Dichloroethene		0.54	U	0.54	4.6
cis-1,3-Dichloropropene		0.63	U	0.63	4.6
1,2-Dibromo-3-Chloropropane		1.3	U	1.3	9.2
Dibromomethane		1.9	U	1.9	4.6
Dichlorobromomethane		0.92	U	0.92	4.6
Dichlorodifluoromethane		0.92	U	0.92	4.6
1,1-Dichloroethane		0.36	U	0.36	4.6
1,2-Dichloroethane		0.66	U	0.66	4.6
1,1-Dichloroethene		1.3	U	1.3	4.6
1,2-Dichloropropane		1.4	U	1.4	4.6
1,3-Dichloropropane		0.91	U	0.91	4.6
2,2-Dichloropropane		0.57	U	0.57	4.6
1,1-Dichloropropene		0.81	U	0.81	4.6
Ethylbenzene		0.29	U	0.29	4.6
Ethylene Dibromide		1.2	U	1.2	4.6
Hexachlorobutadiene		0.66	U	0.66	4.6
2-Hexanone		9.2	U	9.2	23
Isopropylbenzene		0.42	U	0.42	4.6
4-Isopropyltoluene		0.39	U	0.39	4.6
Methylene Chloride		0.92	U	0.92	4.6
4-Methyl-2-pentanone (MIBK)		11	U	11	23
m-Xylene & p-Xylene		0.66	U	0.66	9.2
n-Butylbenzene		0.42	U	0.42	4.6
N-Propylbenzene		0.60	U	0.60	4.6
o-Xylene		0.36	U	0.36	4.6
sec-Butylbenzene		0.60	U	0.60	4.6
Styrene		0.39	U	0.39	4.6
tert-Butylbenzene		0.39	U	0.39	4.6
1,1,1,2-Tetrachloroethane		0.58	U	0.58	4.6
1,1,2,2-Tetrachloroethane		0.92	U	0.92	4.6

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-05(8-12)**

Lab Sample ID: 640-27286-3 | Date Sampled: 04/16/2010 1145
Client Matrix: Solid | % Moisture: 18.1 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68154		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042614.D
Dilution:	1.0			Initial Weight/Volume:	6.61 g
Date Analyzed:	04/26/2010 1611			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.58	U	0.58	4.6
Toluene		0.55	U	0.55	4.6
trans-1,2-Dichloroethene		0.42	U	0.42	4.6
trans-1,3-Dichloropropene		1.2	U	1.2	4.6
1,2,3-Trichlorobenzene		0.56	U	0.56	4.6
1,1,1-Trichloroethane		1.0	U	1.0	4.6
1,1,2-Trichloroethane		0.81	U	0.81	4.6
Trichloroethene		0.79	U	0.79	4.6
Trichlorofluoromethane		2.7	I	1.3	4.6
1,2,3-Trichloropropane		0.92	U	0.92	4.6
1,2,4-Trimethylbenzene		0.51	U	0.51	4.6
1,3,5-Trimethylbenzene		0.44	U	0.44	4.6
Vinyl chloride		0.55	U	0.55	9.2
Xylenes, Total		0.66	U	0.66	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
Dibromofluoromethane	95		61 - 130
Toluene-d8 (Surr)	99		70 - 130

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-04(35-40)**

Lab Sample ID: 640-27286-4 | Date Sampled: 04/16/2010 1250
Client Matrix: Solid | % Moisture: 20.5 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 640-68096 | Instrument ID: VMF
Preparation: 5035 | Prep Batch: 640-68065 | Lab File ID: 1F042313.D
Dilution: 1.0 | Initial Weight/Volume: 6.13 g
Date Analyzed: 04/23/2010 1608 | Final Weight/Volume: 5 g
Date Prepared: 04/23/2010 1200

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		16	U	16	63
Benzene		0.33	U	0.33	6.3
Bromobenzene		0.87	U	0.87	6.3
Bromoform		1.4	U	1.4	6.3
Bromomethane		3.0	U J3	3.0	13
2-Butanone (MEK)		20	U	20	31
Carbon disulfide		19		0.67	6.3
Carbon tetrachloride		0.49	U	0.49	6.3
Chlorobenzene		0.70	U	0.70	6.3
Chlorobromomethane		1.5	U	1.5	6.3
Chlorodibromomethane		0.96	U	0.96	6.3
Chloroethane		0.92	U J3	0.92	13
Chloroform		0.57	U	0.57	6.3
Chloromethane		0.33	U	0.33	13
2-Chlorotoluene		0.67	U	0.67	6.3
4-Chlorotoluene		0.75	U	0.75	6.3
cis-1,2-Dichloroethene		0.74	U	0.74	6.3
cis-1,3-Dichloropropene		0.85	U	0.85	6.3
1,2-Dibromo-3-Chloropropane		1.8	U	1.8	13
Dibromomethane		2.6	U	2.6	6.3
Dichlorobromomethane		1.3	U	1.3	6.3
Dichlorodifluoromethane		1.3	U	1.3	6.3
1,1-Dichloroethane		0.49	U	0.49	6.3
1,2-Dichloroethane		0.91	U	0.91	6.3
1,1-Dichloroethene		1.8	U	1.8	6.3
1,2-Dichloropropane		1.9	U	1.9	6.3
1,3-Dichloropropane		1.2	U	1.2	6.3
2,2-Dichloropropane		0.78	U	0.78	6.3
1,1-Dichloropropene		1.1	U	1.1	6.3
Ethylbenzene		0.39	U	0.39	6.3
Ethylene Dibromide		1.6	U	1.6	6.3
Hexachlorobutadiene		0.91	U	0.91	6.3
2-Hexanone		13	U	13	31
Isopropylbenzene		0.58	U	0.58	6.3
4-Isopropyltoluene		0.53	U	0.53	6.3
Methylene Chloride		1.3	U	1.3	6.3
4-Methyl-2-pentanone (MIBK)		15	U	15	31
m-Xylene & p-Xylene		0.89	U	0.89	13
n-Butylbenzene		0.57	U	0.57	6.3
N-Propylbenzene		0.82	U	0.82	6.3
o-Xylene		0.49	U	0.49	6.3
sec-Butylbenzene		0.82	U	0.82	6.3
Styrene		0.53	U	0.53	6.3
tert-Butylbenzene		0.53	U	0.53	6.3
1,1,1,2-Tetrachloroethane		0.79	U	0.79	6.3
1,1,2,2-Tetrachloroethane		1.3	U	1.3	6.3

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-04(35-40)**

Lab Sample ID: 640-27286-4 | Date Sampled: 04/16/2010 1250
Client Matrix: Solid | % Moisture: 20.5 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042313.D
Dilution:	1.0			Initial Weight/Volume:	6.13 g
Date Analyzed:	04/23/2010 1608			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.79	U	0.79	6.3
Toluene		0.75	U	0.75	6.3
trans-1,2-Dichloroethene		0.57	U	0.57	6.3
trans-1,3-Dichloropropene		1.6	U	1.6	6.3
1,2,3-Trichlorobenzene		0.77	U	0.77	6.3
1,1,1-Trichloroethane		1.4	U	1.4	6.3
1,1,2-Trichloroethane		1.1	U	1.1	6.3
Trichloroethene		1.1	U	1.1	6.3
Trichlorofluoromethane		1.8	U	1.8	6.3
1,2,3-Trichloropropane		1.3	U	1.3	6.3
1,2,4-Trimethylbenzene		0.69	U	0.69	6.3
1,3,5-Trimethylbenzene		0.60	U	0.60	6.3
Vinyl chloride		0.75	U	0.75	13
Xylenes, Total		0.89	U	0.89	13

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		67 - 130
Dibromofluoromethane	93		61 - 130
Toluene-d8 (Surr)	98		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-03(8-12)**

Lab Sample ID: 640-27286-5
Client Matrix: Solid
% Moisture: 24.1

Date Sampled: 04/16/2010 1420
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/23/2010 1640
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68096
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042314.D
Initial Weight/Volume: 6.24 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		45	I	17	66
Benzene		0.34	U	0.34	6.6
Bromobenzene		0.91	U	0.91	6.6
Bromoform		1.4	U	1.4	6.6
Bromomethane		3.2	U J3	3.2	13
2-Butanone (MEK)		21	U	21	33
Carbon disulfide		3.4	I	0.70	6.6
Carbon tetrachloride		0.51	U	0.51	6.6
Chlorobenzene		0.74	U	0.74	6.6
Chlorobromomethane		1.6	U	1.6	6.6
Chlorodibromomethane		1.0	U	1.0	6.6
Chloroethane		0.96	U J3	0.96	13
Chloroform		0.59	U	0.59	6.6
Chloromethane		0.34	U	0.34	13
2-Chlorotoluene		0.70	U	0.70	6.6
4-Chlorotoluene		0.79	U	0.79	6.6
cis-1,2-Dichloroethene		0.78	U	0.78	6.6
cis-1,3-Dichloropropene		0.90	U	0.90	6.6
1,2-Dibromo-3-Chloropropane		1.8	U	1.8	13
Dibromomethane		2.8	U	2.8	6.6
Dichlorobromomethane		1.3	U	1.3	6.6
Dichlorodifluoromethane		1.3	U	1.3	6.6
1,1-Dichloroethane		0.51	U	0.51	6.6
1,2-Dichloroethane		0.95	U	0.95	6.6
1,1-Dichloroethene		1.8	U	1.8	6.6
1,2-Dichloropropane		2.0	U	2.0	6.6
1,3-Dichloropropane		1.3	U	1.3	6.6
2,2-Dichloropropane		0.82	U	0.82	6.6
1,1-Dichloropropene		1.2	U	1.2	6.6
Ethylbenzene		0.41	U	0.41	6.6
Ethylene Dibromide		1.7	U	1.7	6.6
Hexachlorobutadiene		0.95	U	0.95	6.6
2-Hexanone		13	U	13	33
Isopropylbenzene		0.61	U	0.61	6.6
4-Isopropyltoluene		0.55	U	0.55	6.6
Methylene Chloride		1.3	U	1.3	6.6
4-Methyl-2-pentanone (MIBK)		16	U	16	33
m-Xylene & p-Xylene		0.94	U	0.94	13
n-Butylbenzene		0.59	U	0.59	6.6
N-Propylbenzene		0.86	U	0.86	6.6
o-Xylene		0.51	U	0.51	6.6
sec-Butylbenzene		0.86	U	0.86	6.6
Styrene		0.55	U	0.55	6.6
tert-Butylbenzene		0.55	U	0.55	6.6
1,1,1,2-Tetrachloroethane		0.83	U	0.83	6.6
1,1,2,2-Tetrachloroethane		1.3	U	1.3	6.6

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-03(8-12)**

Lab Sample ID: 640-27286-5 | Date Sampled: 04/16/2010 1420
Client Matrix: Solid | % Moisture: 24.1 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042314.D
Dilution:	1.0			Initial Weight/Volume:	6.24 g
Date Analyzed:	04/23/2010 1640			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.83	U	0.83	6.6
Toluene		0.79	U	0.79	6.6
trans-1,2-Dichloroethene		0.59	U	0.59	6.6
trans-1,3-Dichloropropene		1.7	U	1.7	6.6
1,2,3-Trichlorobenzene		0.80	U	0.80	6.6
1,1,1-Trichloroethane		1.4	U	1.4	6.6
1,1,2-Trichloroethane		1.2	U	1.2	6.6
Trichloroethene		1.1	U	1.1	6.6
Trichlorofluoromethane		1.8	U	1.8	6.6
1,2,3-Trichloropropane		1.3	U	1.3	6.6
1,2,4-Trimethylbenzene		0.72	U	0.72	6.6
1,3,5-Trimethylbenzene		0.63	U	0.63	6.6
Vinyl chloride		0.79	U	0.79	13
Xylenes, Total		0.94	U	0.94	13

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
Dibromofluoromethane	90		61 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-02(3-5)**

Lab Sample ID: 640-27286-6
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 04/16/2010 1545
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/23/2010 1712
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68096
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042315.D
Initial Weight/Volume: 6.05 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		120		15	59
Benzene		0.31	U	0.31	5.9
Bromobenzene		0.81	U	0.81	5.9
Bromoform		1.3	U	1.3	5.9
Bromomethane		2.8	U J3	2.8	12
2-Butanone (MEK)		19	U	19	29
Carbon disulfide		2.1	I	0.62	5.9
Carbon tetrachloride		0.46	U	0.46	5.9
Chlorobenzene		0.66	U	0.66	5.9
Chlorobromomethane		1.4	U	1.4	5.9
Chlorodibromomethane		0.89	U	0.89	5.9
Chloroethane		0.86	U J3	0.86	12
Chloroform		0.53	U	0.53	5.9
Chloromethane		0.31	U	0.31	12
2-Chlorotoluene		0.62	U	0.62	5.9
4-Chlorotoluene		0.71	U	0.71	5.9
cis-1,2-Dichloroethene		0.69	U	0.69	5.9
cis-1,3-Dichloropropene		0.80	U	0.80	5.9
1,2-Dibromo-3-Chloropropane		1.6	U	1.6	12
Dibromomethane		2.5	U	2.5	5.9
Dichlorobromomethane		1.2	U	1.2	5.9
Dichlorodifluoromethane		1.2	U	1.2	5.9
1,1-Dichloroethane		0.46	U	0.46	5.9
1,2-Dichloroethane		0.85	U	0.85	5.9
1,1-Dichloroethene		1.6	U	1.6	5.9
1,2-Dichloropropane		1.8	U	1.8	5.9
1,3-Dichloropropane		1.2	U	1.2	5.9
2,2-Dichloropropane		0.73	U	0.73	5.9
1,1-Dichloropropene		1.0	U	1.0	5.9
Ethylbenzene		0.74	I	0.36	5.9
Ethylene Dibromide		1.5	U	1.5	5.9
Hexachlorobutadiene		0.85	U	0.85	5.9
2-Hexanone		12	U	12	29
Isopropylbenzene		0.54	U	0.54	5.9
4-Isopropyltoluene		22		0.49	5.9
Methylene Chloride		1.2	U	1.2	5.9
4-Methyl-2-pentanone (MIBK)		86		14	29
m-Xylene & p-Xylene		3.8	I	0.83	12
n-Butylbenzene		0.53	U	0.53	5.9
N-Propylbenzene		0.76	U	0.76	5.9
o-Xylene		1.9	I	0.46	5.9
sec-Butylbenzene		1.8	I	0.76	5.9
Styrene		0.49	U	0.49	5.9
tert-Butylbenzene		0.64	I	0.49	5.9
1,1,1,2-Tetrachloroethane		0.74	U	0.74	5.9
1,1,2,2-Tetrachloroethane		1.2	U	1.2	5.9

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-02(3-5)**

Lab Sample ID: 640-27286-6 | Date Sampled: 04/16/2010 1545
Client Matrix: Solid | % Moisture: 14.9 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042315.D
Dilution:	1.0			Initial Weight/Volume:	6.05 g
Date Analyzed:	04/23/2010 1712			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.74	U	0.74	5.9
Toluene		2.5	I	0.71	5.9
trans-1,2-Dichloroethene		0.53	U	0.53	5.9
trans-1,3-Dichloropropene		1.5	U	1.5	5.9
1,2,3-Trichlorobenzene		0.72	U	0.72	5.9
1,1,1-Trichloroethane		1.3	U	1.3	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		1.0	U	1.0	5.9
Trichlorofluoromethane		1.6	U	1.6	5.9
1,2,3-Trichloropropane		1.2	U	1.2	5.9
1,2,4-Trimethylbenzene		4.5	I	0.65	5.9
1,3,5-Trimethylbenzene		2.5	I	0.56	5.9
Vinyl chloride		0.71	U	0.71	12
Xylenes, Total		0.83	U	0.83	12

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		67 - 130
Dibromofluoromethane	89		61 - 130
Toluene-d8 (Surr)	94		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-26(3-4)**

Lab Sample ID: 640-27286-7
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 04/16/2010 1640
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042316.D
Dilution:	1.0			Initial Weight/Volume:	5.95 g
Date Analyzed:	04/23/2010 1743			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		22	I	16	61
Benzene		5.7	I	0.32	6.1
Bromobenzene		0.85	U	0.85	6.1
Bromoform		1.3	U	1.3	6.1
Bromomethane		2.9	U J3	2.9	12
2-Butanone (MEK)		20	U	20	31
Carbon disulfide		0.65	U	0.65	6.1
Carbon tetrachloride		0.48	U	0.48	6.1
Chlorobenzene		0.69	U	0.69	6.1
Chlorobromomethane		1.5	U	1.5	6.1
Chlorodibromomethane		0.93	U	0.93	6.1
Chloroethane		0.90	U J3	0.90	12
Chloroform		0.55	U	0.55	6.1
Chloromethane		0.32	U	0.32	12
2-Chlorotoluene		0.65	U	0.65	6.1
4-Chlorotoluene		0.74	U	0.74	6.1
cis-1,2-Dichloroethene		0.72	U	0.72	6.1
cis-1,3-Dichloropropene		0.83	U	0.83	6.1
1,2-Dibromo-3-Chloropropane		1.7	U	1.7	12
Dibromomethane		2.6	U	2.6	6.1
Dichlorobromomethane		1.2	U	1.2	6.1
Dichlorodifluoromethane		1.2	U	1.2	6.1
1,1-Dichloroethane		0.48	U	0.48	6.1
1,2-Dichloroethane		0.88	U	0.88	6.1
1,1-Dichloroethene		1.7	U	1.7	6.1
1,2-Dichloropropane		1.8	U	1.8	6.1
1,3-Dichloropropane		1.2	U	1.2	6.1
2,2-Dichloropropane		0.76	U	0.76	6.1
1,1-Dichloropropene		1.1	U	1.1	6.1
Ethylbenzene		0.38	I	0.38	6.1
Ethylene Dibromide		1.6	U	1.6	6.1
Hexachlorobutadiene		0.88	U	0.88	6.1
2-Hexanone		12	U	12	31
Isopropylbenzene		0.56	U	0.56	6.1
4-Isopropyltoluene		0.51	U	0.51	6.1
Methylene Chloride		1.2	U	1.2	6.1
4-Methyl-2-pentanone (MIBK)		15	U	15	31
m-Xylene & p-Xylene		2.2	I	0.87	12
n-Butylbenzene		0.55	U	0.55	6.1
N-Propylbenzene		0.80	U	0.80	6.1
o-Xylene		0.56	I	0.48	6.1
sec-Butylbenzene		0.80	U	0.80	6.1
Styrene		0.51	U	0.51	6.1
tert-Butylbenzene		0.51	U	0.51	6.1
1,1,1,2-Tetrachloroethane		0.77	U	0.77	6.1
1,1,2,2-Tetrachloroethane		1.2	U	1.2	6.1

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-26(3-4)**

Lab Sample ID: 640-27286-7 | Date Sampled: 04/16/2010 1640
Client Matrix: Solid | % Moisture: 18.4 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042316.D
Dilution:	1.0			Initial Weight/Volume:	5.95 g
Date Analyzed:	04/23/2010 1743			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.77	U	0.77	6.1
Toluene		0.74	U	0.74	6.1
trans-1,2-Dichloroethene		0.55	U	0.55	6.1
trans-1,3-Dichloropropene		1.6	U	1.6	6.1
1,2,3-Trichlorobenzene		0.75	U	0.75	6.1
1,1,1-Trichloroethane		1.3	U	1.3	6.1
1,1,2-Trichloroethane		1.1	U	1.1	6.1
Trichloroethene		1.1	U	1.1	6.1
Trichlorofluoromethane		1.7	U	1.7	6.1
1,2,3-Trichloropropane		1.2	U	1.2	6.1
1,2,4-Trimethylbenzene		0.67	U	0.67	6.1
1,3,5-Trimethylbenzene		0.59	U	0.59	6.1
Vinyl chloride		0.74	U	0.74	12
Xylenes, Total		0.87	U	0.87	12

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		67 - 130
Dibromofluoromethane	93		61 - 130
Toluene-d8 (Surr)	99		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-28(7-11)**

Lab Sample ID: 640-27286-8
Client Matrix: Solid
% Moisture: 20.2

Date Sampled: 04/16/2010 1725
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/23/2010 1815
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68096
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042317.D
Initial Weight/Volume: 6.15 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		16	U	16	63
Benzene		0.33	U	0.33	6.3
Bromobenzene		0.86	U	0.86	6.3
Bromoform		1.4	U	1.4	6.3
Bromomethane		3.0	U J3	3.0	13
2-Butanone (MEK)		20	U	20	31
Carbon disulfide		0.66	U	0.66	6.3
Carbon tetrachloride		0.49	U	0.49	6.3
Chlorobenzene		0.70	U	0.70	6.3
Chlorobromomethane		1.5	U	1.5	6.3
Chlorodibromomethane		0.95	U	0.95	6.3
Chloroethane		0.91	U J3	0.91	13
Chloroform		0.56	U	0.56	6.3
Chloromethane		0.33	U	0.33	13
2-Chlorotoluene		0.66	U	0.66	6.3
4-Chlorotoluene		0.75	U	0.75	6.3
cis-1,2-Dichloroethene		0.74	U	0.74	6.3
cis-1,3-Dichloropropene		0.85	U	0.85	6.3
1,2-Dibromo-3-Chloropropane		1.8	U	1.8	13
Dibromomethane		2.6	U	2.6	6.3
Dichlorobromomethane		1.3	U	1.3	6.3
Dichlorodifluoromethane		1.3	U	1.3	6.3
1,1-Dichloroethane		0.49	U	0.49	6.3
1,2-Dichloroethane		0.90	U	0.90	6.3
1,1-Dichloroethene		1.8	U	1.8	6.3
1,2-Dichloropropane		1.9	U	1.9	6.3
1,3-Dichloropropane		1.2	U	1.2	6.3
2,2-Dichloropropane		0.78	U	0.78	6.3
1,1-Dichloropropene		1.1	U	1.1	6.3
Ethylbenzene		0.39	U	0.39	6.3
Ethylene Dibromide		1.6	U	1.6	6.3
Hexachlorobutadiene		0.90	U	0.90	6.3
2-Hexanone		13	U	13	31
Isopropylbenzene		0.58	U	0.58	6.3
4-Isopropyltoluene		0.53	U	0.53	6.3
Methylene Chloride		1.3	U	1.3	6.3
4-Methyl-2-pentanone (MIBK)		15	U	15	31
m-Xylene & p-Xylene		0.89	U	0.89	13
n-Butylbenzene		0.56	U	0.56	6.3
N-Propylbenzene		0.81	U	0.81	6.3
o-Xylene		0.49	U	0.49	6.3
sec-Butylbenzene		0.81	U	0.81	6.3
Styrene		0.53	U	0.53	6.3
tert-Butylbenzene		0.53	U	0.53	6.3
1,1,1,2-Tetrachloroethane		0.79	U	0.79	6.3
1,1,2,2-Tetrachloroethane		1.3	U	1.3	6.3

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-28(7-11)**

Lab Sample ID: 640-27286-8 | Date Sampled: 04/16/2010 1725
Client Matrix: Solid | % Moisture: 20.2 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042317.D
Dilution:	1.0			Initial Weight/Volume:	6.15 g
Date Analyzed:	04/23/2010 1815			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.79	U	0.79	6.3
Toluene		0.75	U	0.75	6.3
trans-1,2-Dichloroethene		0.56	U	0.56	6.3
trans-1,3-Dichloropropene		1.6	U	1.6	6.3
1,2,3-Trichlorobenzene		0.76	U	0.76	6.3
1,1,1-Trichloroethane		1.4	U	1.4	6.3
1,1,2-Trichloroethane		1.1	U	1.1	6.3
Trichloroethene		1.1	U	1.1	6.3
Trichlorofluoromethane		1.8	U	1.8	6.3
1,2,3-Trichloropropane		1.3	U	1.3	6.3
1,2,4-Trimethylbenzene		0.69	U	0.69	6.3
1,3,5-Trimethylbenzene		0.60	U	0.60	6.3
Vinyl chloride		0.75	U	0.75	13
Xylenes, Total		0.89	U	0.89	13

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		67 - 130
Dibromofluoromethane	91		61 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-29(8-9)**

Lab Sample ID: 640-27286-9
Client Matrix: Solid
% Moisture: 19.0

Date Sampled: 04/16/2010 1750
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/23/2010 1847
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68096
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042318.D
Initial Weight/Volume: 5.95 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		47	I	16	62
Benzene		0.32	U	0.32	6.2
Bromobenzene		0.85	U	0.85	6.2
Bromoform		1.4	U	1.4	6.2
Bromomethane		3.0	U J3	3.0	12
2-Butanone (MEK)		20	U	20	31
Carbon disulfide		0.65	U	0.65	6.2
Carbon tetrachloride		0.48	U	0.48	6.2
Chlorobenzene		0.69	U	0.69	6.2
Chlorobromomethane		1.5	U	1.5	6.2
Chlorodibromomethane		0.94	U	0.94	6.2
Chloroethane		0.90	U J3	0.90	12
Chloroform		0.56	U	0.56	6.2
Chloromethane		0.32	U	0.32	12
2-Chlorotoluene		0.65	U	0.65	6.2
4-Chlorotoluene		0.74	U	0.74	6.2
cis-1,2-Dichloroethene		0.73	U	0.73	6.2
cis-1,3-Dichloropropene		0.84	U	0.84	6.2
1,2-Dibromo-3-Chloropropane		1.7	U	1.7	12
Dibromomethane		2.6	U	2.6	6.2
Dichlorobromomethane		1.2	U	1.2	6.2
Dichlorodifluoromethane		1.2	U	1.2	6.2
1,1-Dichloroethane		0.48	U	0.48	6.2
1,2-Dichloroethane		0.89	U	0.89	6.2
1,1-Dichloroethene		1.7	U	1.7	6.2
1,2-Dichloropropane		1.9	U	1.9	6.2
1,3-Dichloropropane		1.2	U	1.2	6.2
2,2-Dichloropropane		0.77	U	0.77	6.2
1,1-Dichloropropene		1.1	U	1.1	6.2
Ethylbenzene		0.38	U	0.38	6.2
Ethylene Dibromide		1.6	U	1.6	6.2
Hexachlorobutadiene		0.89	U	0.89	6.2
2-Hexanone		12	U	12	31
Isopropylbenzene		5.2	I	0.57	6.2
4-Isopropyltoluene		2.2	I	0.52	6.2
Methylene Chloride		1.2	U	1.2	6.2
4-Methyl-2-pentanone (MIBK)		15	U	15	31
m-Xylene & p-Xylene		0.88	U	0.88	12
n-Butylbenzene		2.4	I	0.56	6.2
N-Propylbenzene		0.80	U	0.80	6.2
o-Xylene		0.48	U	0.48	6.2
sec-Butylbenzene		0.80	U	0.80	6.2
Styrene		0.52	U	0.52	6.2
tert-Butylbenzene		0.52	U	0.52	6.2
1,1,1,2-Tetrachloroethane		0.78	U	0.78	6.2
1,1,2,2-Tetrachloroethane		1.2	U	1.2	6.2

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-29(8-9)**

Lab Sample ID: 640-27286-9 | Date Sampled: 04/16/2010 1750
Client Matrix: Solid | % Moisture: 19.0 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 640-68096		Instrument ID:	VMF
Preparation:	5035	Prep Batch: 640-68065		Lab File ID:	1F042318.D
Dilution:	1.0			Initial Weight/Volume:	5.95 g
Date Analyzed:	04/23/2010 1847			Final Weight/Volume:	5 g
Date Prepared:	04/23/2010 1200				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		0.78	U	0.78	6.2
Toluene		0.74	U	0.74	6.2
trans-1,2-Dichloroethene		0.56	U	0.56	6.2
trans-1,3-Dichloropropene		1.6	U	1.6	6.2
1,2,3-Trichlorobenzene		0.75	U	0.75	6.2
1,1,1-Trichloroethane		1.4	U	1.4	6.2
1,1,2-Trichloroethane		1.1	U	1.1	6.2
Trichloroethene		1.1	U	1.1	6.2
Trichlorofluoromethane		1.7	U	1.7	6.2
1,2,3-Trichloropropane		1.2	U	1.2	6.2
1,2,4-Trimethylbenzene		3.3	I	0.68	6.2
1,3,5-Trimethylbenzene		1.9	I	0.59	6.2
Vinyl chloride		0.74	U	0.74	12
Xylenes, Total		0.88	U	0.88	12

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		67 - 130
Dibromofluoromethane	97		61 - 130
Toluene-d8 (Surr)	99		70 - 130

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-30(7-10)**

Lab Sample ID: 640-27286-10
Client Matrix: Solid
% Moisture: 52.9

Date Sampled: 04/16/2010 1825
Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 04/23/2010 1919
Date Prepared: 04/23/2010 1200

Analysis Batch: 640-68096
Prep Batch: 640-68065

Instrument ID: VMF
Lab File ID: 1F042319.D
Initial Weight/Volume: 4.63 g
Final Weight/Volume: 5 g

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acetone		62	I	28	110
Benzene		0.55	U	0.55	11
Bromobenzene		1.5	U	1.5	11
Bromoform		2.3	U	2.3	11
Bromomethane		5.1	U J3	5.1	21
2-Butanone (MEK)		34	U	34	53
Carbon disulfide		1.1	U	1.1	11
Carbon tetrachloride		0.83	U	0.83	11
Chlorobenzene		1.2	U	1.2	11
Chlorobromomethane		2.5	U	2.5	11
Chlorodibromomethane		1.6	U	1.6	11
Chloroethane		1.6	U J3	1.6	21
Chloroform		0.96	U	0.96	11
Chloromethane		0.55	U	0.55	21
2-Chlorotoluene		1.1	U	1.1	11
4-Chlorotoluene		1.3	U	1.3	11
cis-1,2-Dichloroethene		1.3	U	1.3	11
cis-1,3-Dichloropropene		1.4	U	1.4	11
1,2-Dibromo-3-Chloropropane		3.0	U	3.0	21
Dibromomethane		4.5	U	4.5	11
Dichlorobromomethane		2.1	U	2.1	11
Dichlorodifluoromethane		2.1	U	2.1	11
1,1-Dichloroethane		0.83	U	0.83	11
1,2-Dichloroethane		1.5	U	1.5	11
1,1-Dichloroethene		3.0	U	3.0	11
1,2-Dichloropropane		3.2	U	3.2	11
1,3-Dichloropropane		2.1	U	2.1	11
2,2-Dichloropropane		1.3	U	1.3	11
1,1-Dichloropropene		1.9	U	1.9	11
Ethylbenzene		0.66	U	0.66	11
Ethylene Dibromide		2.8	U	2.8	11
Hexachlorobutadiene		1.5	U	1.5	11
2-Hexanone		21	U	21	53
Isopropylbenzene		0.98	U	0.98	11
4-Isopropyltoluene		0.89	U	0.89	11
Methylene Chloride		2.1	U	2.1	11
4-Methyl-2-pentanone (MIBK)		25	U	25	53
m-Xylene & p-Xylene		1.5	U	1.5	21
n-Butylbenzene		0.96	U	0.96	11
N-Propylbenzene		1.4	U	1.4	11
o-Xylene		0.83	U	0.83	11
sec-Butylbenzene		1.4	U	1.4	11
Styrene		0.89	U	0.89	11
tert-Butylbenzene		0.89	U	0.89	11
1,1,1,2-Tetrachloroethane		1.3	U	1.3	11
1,1,2,2-Tetrachloroethane		2.1	U	2.1	11

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-30(7-10)**

Lab Sample ID: 640-27286-10 | Date Sampled: 04/16/2010 1825
Client Matrix: Solid | % Moisture: 52.9 | Date Received: 04/17/2010 1215

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 640-68096 | Instrument ID: VMF
Preparation: 5035 | Prep Batch: 640-68065 | Lab File ID: 1F042319.D
Dilution: 1.0 | Initial Weight/Volume: 4.63 g
Date Analyzed: 04/23/2010 1919 | Final Weight/Volume: 5 g
Date Prepared: 04/23/2010 1200

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Tetrachloroethene		1.3	U	1.3	11
Toluene		1.3	U	1.3	11
trans-1,2-Dichloroethene		0.96	U	0.96	11
trans-1,3-Dichloropropene		2.8	U	2.8	11
1,2,3-Trichlorobenzene		1.3	U	1.3	11
1,1,1-Trichloroethane		2.3	U	2.3	11
1,1,2-Trichloroethane		1.9	U	1.9	11
Trichloroethene		1.8	U	1.8	11
Trichlorofluoromethane		3.0	U	3.0	11
1,2,3-Trichloropropane		2.1	U	2.1	11
1,2,4-Trimethylbenzene		1.2	U	1.2	11
1,3,5-Trimethylbenzene		1.0	U	1.0	11
Vinyl chloride		1.3	U	1.3	21
Xylenes, Total		1.5	U	1.5	21

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		67 - 130
Dibromofluoromethane	93		61 - 130
Toluene-d8 (Surr)	100		70 - 130

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-08(6-11)**

Lab Sample ID: 640-27286-1 | Date Sampled: 04/16/2010 0945
Client Matrix: Solid | % Moisture: 21.4 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042725.D
Dilution:	1.0			Initial Weight/Volume:	00030.38 g
Date Analyzed:	04/27/2010 2349			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		31	U	31	410
Acenaphthylene		54	U	54	410
Anthracene		28	U	28	410
Benzidine		410	U	410	3400
Benzo[a]anthracene		15	U	15	410
Benzo[a]pyrene		12	U	12	410
Benzo[b]fluoranthene		7.2	U	7.2	410
Benzo[g,h,i]perylene		21	U	21	410
Benzoic acid		410	U	410	2100
Benzo[k]fluoranthene		26	U	26	410
Benzyl alcohol		30	U	30	410
Bis(2-chloroethoxy)methane		29	U	29	410
Bis(2-chloroethyl)ether		31	U	31	410
Bis(2-ethylhexyl) phthalate		23	I V	14	410
4-Bromophenyl phenyl ether		23	U	23	410
Butyl benzyl phthalate		16	U	16	410
4-Chloroaniline		16	U	16	830
4-Chloro-3-methylphenol		38	U	38	410
2-Chloronaphthalene		21	U	21	410
2-Chlorophenol		21	U	21	410
4-Chlorophenyl phenyl ether		18	U	18	410
Chrysene		26	U	26	410
Dibenz(a,h)anthracene		15	U	15	410
Dibenzofuran		14	U	14	410
1,2-Dichlorobenzene		31	U	31	410
1,3-Dichlorobenzene		25	U	25	410
1,4-Dichlorobenzene		21	U	21	410
3,3'-Dichlorobenzidine		16	U	16	830
2,4-Dichlorophenol		28	U	28	410
Diethyl phthalate		18	U	18	410
2,4-Dimethylphenol		18	U	18	410
Dimethyl phthalate		23	U	23	410
Di-n-butyl phthalate		93	U	93	410
4,6-Dinitro-2-methylphenol		210	U	210	2100
2,4-Dinitrophenol		210	U	210	2100
2,4-Dinitrotoluene		20	U	20	410
2,6-Dinitrotoluene		20	U	20	410
Di-n-octyl phthalate		16	U	16	410
Fluoranthene		24	U	24	410
Fluorene		60	U	60	410
Hexachlorobenzene		31	U	31	410
Hexachlorobutadiene		26	U	26	410
Hexachlorocyclopentadiene		20	U J3	20	410
Hexachloroethane		25	U	25	410
Indeno[1,2,3-cd]pyrene		18	U	18	410
Isophorone		15	U	15	410

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-08(6-11)**

Lab Sample ID: 640-27286-1 | Date Sampled: 04/16/2010 0945
Client Matrix: Solid | % Moisture: 21.4 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042725.D
Dilution:	1.0			Initial Weight/Volume:	00030.38 g
Date Analyzed:	04/27/2010 2349			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		14	U	14	410
2-Methylphenol		24	U	24	410
3 & 4 Methylphenol		29	U	29	410
Naphthalene		26	U	26	410
2-Nitroaniline		11	U	11	2100
3-Nitroaniline		29	U	29	2100
4-Nitroaniline		29	U	29	2100
Nitrobenzene		20	U	20	410
2-Nitrophenol		28	U	28	410
4-Nitrophenol		260	U	260	2100
N-Nitrosodimethylamine		64	U	64	410
N-Nitrosodi-n-propylamine		20	U	20	410
N-Nitrosodiphenylamine		62	U	62	410
2,2'-oxybis[1-chloropropane]		21	U	21	410
Pentachlorophenol		62	U	62	2100
Phenanthrene		29	U	29	410
Phenol		24	U	24	410
Pyrene		20	U	20	410
1,2,4-Trichlorobenzene		16	U	16	410
2,4,5-Trichlorophenol		74	U	74	410
2,4,6-Trichlorophenol		20	U	20	410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	74		30 - 135
2-Fluorophenol	79		27 - 135
Nitrobenzene-d5	70		22 - 135
Phenol-d5	69		24 - 135
Terphenyl-d14	80		36 - 135
2,4,6-Tribromophenol	80		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: OM-DP-07(2-4)

Lab Sample ID: 640-27286-2
Client Matrix: Solid
% Moisture: 57.4
Date Sampled: 04/16/2010 1020
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042726.D
Dilution:	1.0			Initial Weight/Volume:	00030.03 g
Date Analyzed:	04/28/2010 0013			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		59	U	59	770
Acenaphthylene		100	U	100	770
Anthracene		56	I	52	770
Benzidine		770	U	770	6300
Benzo[a]anthracene		84	I	28	770
Benzo[a]pyrene		110	I	22	770
Benzo[b]fluoranthene		180	I	13	770
Benzo[g,h,i]perylene		110	I	40	770
Benzoic acid		770	U	770	4000
Benzo[k]fluoranthene		68	I	49	770
Benzyl alcohol		56	U	56	770
Bis(2-chloroethoxy)methane		54	U	54	770
Bis(2-chloroethyl)ether		59	U	59	770
Bis(2-ethylhexyl) phthalate		180	I V	26	770
4-Bromophenyl phenyl ether		42	U	42	770
Butyl benzyl phthalate		99	I	30	770
4-Chloroaniline		30	U	30	1500
4-Chloro-3-methylphenol		70	U	70	770
2-Chloronaphthalene		40	U	40	770
2-Chlorophenol		40	U	40	770
4-Chlorophenyl phenyl ether		33	U	33	770
Chrysene		140	I	49	770
Dibenz(a,h)anthracene		28	U	28	770
Dibenzofuran		26	U	26	770
1,2-Dichlorobenzene		59	U	59	770
1,3-Dichlorobenzene		47	U	47	770
1,4-Dichlorobenzene		40	U	40	770
3,3'-Dichlorobenzidine		30	U	30	1500
2,4-Dichlorophenol		52	U	52	770
Diethyl phthalate		33	U	33	770
2,4-Dimethylphenol		33	U	33	770
Dimethyl phthalate		42	U	42	770
Di-n-butyl phthalate		170	U	170	770
4,6-Dinitro-2-methylphenol		400	U	400	4000
2,4-Dinitrophenol		400	U	400	4000
2,4-Dinitrotoluene		37	U	37	770
2,6-Dinitrotoluene		37	U	37	770
Di-n-octyl phthalate		30	U	30	770
Fluoranthene		140	I	45	770
Fluorene		110	U	110	770
Hexachlorobenzene		59	U	59	770
Hexachlorobutadiene		49	U	49	770
Hexachlorocyclopentadiene		37	U J3	37	770
Hexachloroethane		47	U	47	770
Indeno[1,2,3-cd]pyrene		87	I	33	770
Isophorone		28	U	28	770

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-07(2-4)**

Lab Sample ID: 640-27286-2 | Date Sampled: 04/16/2010 1020
Client Matrix: Solid | % Moisture: 57.4 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042726.D
Dilution:	1.0			Initial Weight/Volume:	00030.03 g
Date Analyzed:	04/28/2010 0013			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		26	U	26	770
2-Methylphenol		45	U	45	770
3 & 4 Methylphenol		54	U	54	770
Naphthalene		49	U	49	770
2-Nitroaniline		21	U	21	4000
3-Nitroaniline		54	U	54	4000
4-Nitroaniline		54	U	54	4000
Nitrobenzene		37	U	37	770
2-Nitrophenol		52	U	52	770
4-Nitrophenol		490	U	490	4000
N-Nitrosodimethylamine		120	U	120	770
N-Nitrosodi-n-propylamine		37	U	37	770
N-Nitrosodiphenylamine		110	U	110	770
2,2'-oxybis[1-chloropropane]		40	U	40	770
Pentachlorophenol		110	U	110	4000
Phenanthrene		81	I	54	770
Phenol		45	U	45	770
Pyrene		130	I	37	770
1,2,4-Trichlorobenzene		30	U	30	770
2,4,5-Trichlorophenol		140	U	140	770
2,4,6-Trichlorophenol		37	U	37	770

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	64		30 - 135
2-Fluorophenol	71		27 - 135
Nitrobenzene-d5	60		22 - 135
Phenol-d5	65		24 - 135
Terphenyl-d14	78		36 - 135
2,4,6-Tribromophenol	86		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-05(8-12)**

Lab Sample ID: 640-27286-3
Client Matrix: Solid
% Moisture: 18.1

Date Sampled: 04/16/2010 1145
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042727.D
Dilution:	1.0			Initial Weight/Volume:	00030.14 g
Date Analyzed:	04/28/2010 0037			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		30	U	30	400
Acenaphthylene		52	U	52	400
Anthracene		27	U	27	400
Benzidine		400	U	400	3300
Benzo[a]anthracene		15	U	15	400
Benzo[a]pyrene		12	U	12	400
Benzo[b]fluoranthene		6.9	U	6.9	400
Benzo[g,h,i]perylene		21	U	21	400
Benzoic acid		400	U	400	2100
Benzo[k]fluoranthene		26	U	26	400
Benzyl alcohol		29	U	29	400
Bis(2-chloroethoxy)methane		28	U	28	400
Bis(2-chloroethyl)ether		30	U	30	400
Bis(2-ethylhexyl) phthalate		120	I V	13	400
4-Bromophenyl phenyl ether		22	U	22	400
Butyl benzyl phthalate		60	I	16	400
4-Chloroaniline		16	U	16	800
4-Chloro-3-methylphenol		36	U	36	400
2-Chloronaphthalene		21	U	21	400
2-Chlorophenol		21	U	21	400
4-Chlorophenyl phenyl ether		17	U	17	400
Chrysene		26	U	26	400
Dibenz(a,h)anthracene		15	U	15	400
Dibenzofuran		13	U	13	400
1,2-Dichlorobenzene		30	U	30	400
1,3-Dichlorobenzene		24	U	24	400
1,4-Dichlorobenzene		21	U	21	400
3,3'-Dichlorobenzidine		16	U	16	800
2,4-Dichlorophenol		27	U	27	400
Diethyl phthalate		17	U	17	400
2,4-Dimethylphenol		17	U	17	400
Dimethyl phthalate		22	U	22	400
Di-n-butyl phthalate		90	U	90	400
4,6-Dinitro-2-methylphenol		210	U	210	2100
2,4-Dinitrophenol		210	U	210	2100
2,4-Dinitrotoluene		19	U	19	400
2,6-Dinitrotoluene		19	U	19	400
Di-n-octyl phthalate		16	U	16	400
Fluoranthene		23	U	23	400
Fluorene		58	U	58	400
Hexachlorobenzene		30	U	30	400
Hexachlorobutadiene		26	U	26	400
Hexachlorocyclopentadiene		19	U J3	19	400
Hexachloroethane		24	U	24	400
Indeno[1,2,3-cd]pyrene		17	U	17	400
Isophorone		15	U	15	400

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-05(8-12)**

Lab Sample ID: 640-27286-3 | Date Sampled: 04/16/2010 1145
Client Matrix: Solid | % Moisture: 18.1 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042727.D
Dilution:	1.0			Initial Weight/Volume:	00030.14 g
Date Analyzed:	04/28/2010 0037			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		13	U	13	400
2-Methylphenol		23	U	23	400
3 & 4 Methylphenol		28	U	28	400
Naphthalene		26	U	26	400
2-Nitroaniline		11	U	11	2100
3-Nitroaniline		28	U	28	2100
4-Nitroaniline		28	U	28	2100
Nitrobenzene		19	U	19	400
2-Nitrophenol		27	U	27	400
4-Nitrophenol		260	U	260	2100
N-Nitrosodimethylamine		62	U	62	400
N-Nitrosodi-n-propylamine		19	U	19	400
N-Nitrosodiphenylamine		60	U	60	400
2,2'-oxybis[1-chloropropane]		21	U	21	400
Pentachlorophenol		60	U	60	2100
Phenanthrene		28	U	28	400
Phenol		23	U	23	400
Pyrene		19	U	19	400
1,2,4-Trichlorobenzene		16	U	16	400
2,4,5-Trichlorophenol		72	U	72	400
2,4,6-Trichlorophenol		19	U	19	400

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	47		30 - 135
2-Fluorophenol	50		27 - 135
Nitrobenzene-d5	41		22 - 135
Phenol-d5	43		24 - 135
Terphenyl-d14	83		36 - 135
2,4,6-Tribromophenol	89		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-04(35-40)**

Lab Sample ID: 640-27286-4
Client Matrix: Solid
% Moisture: 20.5

Date Sampled: 04/16/2010 1250
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042728.D
Dilution:	1.0			Initial Weight/Volume:	00030.18 g
Date Analyzed:	04/28/2010 0101			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		31	U	31	410
Acenaphthylene		54	U	54	410
Anthracene		27	U	27	410
Benzidine		410	U	410	3400
Benzo[a]anthracene		15	U	15	410
Benzo[a]pyrene		12	U	12	410
Benzo[b]fluoranthene		7.1	U	7.1	410
Benzo[g,h,i]perylene		21	U	21	410
Benzoic acid		410	U	410	2100
Benzo[k]fluoranthene		26	U	26	410
Benzyl alcohol		30	U	30	410
Bis(2-chloroethoxy)methane		29	U	29	410
Bis(2-chloroethyl)ether		31	U	31	410
Bis(2-ethylhexyl) phthalate		50	I V	14	410
4-Bromophenyl phenyl ether		22	U	22	410
Butyl benzyl phthalate		16	U	16	410
4-Chloroaniline		16	U	16	820
4-Chloro-3-methylphenol		37	U	37	410
2-Chloronaphthalene		21	U	21	410
2-Chlorophenol		21	U	21	410
4-Chlorophenyl phenyl ether		17	U	17	410
Chrysene		26	U	26	410
Dibenz(a,h)anthracene		15	U	15	410
Dibenzofuran		14	U	14	410
1,2-Dichlorobenzene		31	U	31	410
1,3-Dichlorobenzene		25	U	25	410
1,4-Dichlorobenzene		21	U	21	410
3,3'-Dichlorobenzidine		16	U	16	820
2,4-Dichlorophenol		27	U	27	410
Diethyl phthalate		17	U	17	410
2,4-Dimethylphenol		17	U	17	410
Dimethyl phthalate		22	U	22	410
Di-n-butyl phthalate		92	U	92	410
4,6-Dinitro-2-methylphenol		210	U	210	2100
2,4-Dinitrophenol		210	U	210	2100
2,4-Dinitrotoluene		20	U	20	410
2,6-Dinitrotoluene		20	U	20	410
Di-n-octyl phthalate		16	U	16	410
Fluoranthene		24	U	24	410
Fluorene		60	U	60	410
Hexachlorobenzene		31	U	31	410
Hexachlorobutadiene		26	U	26	410
Hexachlorocyclopentadiene		20	U J3	20	410
Hexachloroethane		25	U	25	410
Indeno[1,2,3-cd]pyrene		17	U	17	410
Isophorone		15	U	15	410

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-04(35-40)**

Lab Sample ID: 640-27286-4 | Date Sampled: 04/16/2010 1250
Client Matrix: Solid | % Moisture: 20.5 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042728.D
Dilution:	1.0			Initial Weight/Volume:	00030.18 g
Date Analyzed:	04/28/2010 0101			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		14	U	14	410
2-Methylphenol		24	U	24	410
3 & 4 Methylphenol		29	U	29	410
Naphthalene		26	U	26	410
2-Nitroaniline		11	U	11	2100
3-Nitroaniline		29	U	29	2100
4-Nitroaniline		29	U	29	2100
Nitrobenzene		20	U	20	410
2-Nitrophenol		27	U	27	410
4-Nitrophenol		260	U	260	2100
N-Nitrosodimethylamine		64	U	64	410
N-Nitrosodi-n-propylamine		20	U	20	410
N-Nitrosodiphenylamine		61	U	61	410
2,2'-oxybis[1-chloropropane]		21	U	21	410
Pentachlorophenol		61	U	61	2100
Phenanthrene		29	U	29	410
Phenol		24	U	24	410
Pyrene		20	U	20	410
1,2,4-Trichlorobenzene		16	U	16	410
2,4,5-Trichlorophenol		74	U	74	410
2,4,6-Trichlorophenol		20	U	20	410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	64		30 - 135
2-Fluorophenol	76		27 - 135
Nitrobenzene-d5	63		22 - 135
Phenol-d5	60		24 - 135
Terphenyl-d14	83		36 - 135
2,4,6-Tribromophenol	70		24 - 135

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-03(8-12)**

Lab Sample ID: 640-27286-5 | Date Sampled: 04/16/2010 1420
Client Matrix: Solid | % Moisture: 24.1 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042729.D
Dilution:	1.0			Initial Weight/Volume:	00030.34 g
Date Analyzed:	04/28/2010 0125			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		33	U	33	430
Acenaphthylene		56	U	56	430
Anthracene		29	U	29	430
Benzidine		430	U	430	3500
Benzo[a]anthracene		16	U	16	430
Benzo[a]pyrene		13	U	13	430
Benzo[b]fluoranthene		7.4	U	7.4	430
Benzo[g,h,i]perylene		22	U	22	430
Benzoic acid		430	U	430	2200
Benzo[k]fluoranthene		27	U	27	430
Benzyl alcohol		31	U	31	430
Bis(2-chloroethoxy)methane		30	U	30	430
Bis(2-chloroethyl)ether		33	U	33	430
Bis(2-ethylhexyl) phthalate		29	I V	14	430
4-Bromophenyl phenyl ether		23	U	23	430
Butyl benzyl phthalate		17	U	17	430
4-Chloroaniline		17	U	17	860
4-Chloro-3-methylphenol		39	U	39	430
2-Chloronaphthalene		22	U	22	430
2-Chlorophenol		22	U	22	430
4-Chlorophenyl phenyl ether		18	U	18	430
Chrysene		27	U	27	430
Dibenz(a,h)anthracene		16	U	16	430
Dibenzofuran		14	U	14	430
1,2-Dichlorobenzene		33	U	33	430
1,3-Dichlorobenzene		26	U	26	430
1,4-Dichlorobenzene		22	U	22	430
3,3'-Dichlorobenzidine		17	U	17	860
2,4-Dichlorophenol		29	U	29	430
Diethyl phthalate		18	U	18	430
2,4-Dimethylphenol		18	U	18	430
Dimethyl phthalate		23	U	23	430
Di-n-butyl phthalate		96	U	96	430
4,6-Dinitro-2-methylphenol		220	U	220	2200
2,4-Dinitrophenol		220	U	220	2200
2,4-Dinitrotoluene		21	U	21	430
2,6-Dinitrotoluene		21	U	21	430
Di-n-octyl phthalate		17	U	17	430
Fluoranthene		25	U	25	430
Fluorene		63	U	63	430
Hexachlorobenzene		33	U	33	430
Hexachlorobutadiene		27	U	27	430
Hexachlorocyclopentadiene		21	U J3	21	430
Hexachloroethane		26	U	26	430
Indeno[1,2,3-cd]pyrene		18	U	18	430
Isophorone		16	U	16	430

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-03(8-12)**

Lab Sample ID: 640-27286-5 | Date Sampled: 04/16/2010 1420
Client Matrix: Solid | % Moisture: 24.1 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042729.D
Dilution:	1.0			Initial Weight/Volume:	00030.34 g
Date Analyzed:	04/28/2010 0125			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		14	U	14	430
2-Methylphenol		25	U	25	430
3 & 4 Methylphenol		30	U	30	430
Naphthalene		27	U	27	430
2-Nitroaniline		11	U	11	2200
3-Nitroaniline		30	U	30	2200
4-Nitroaniline		30	U	30	2200
Nitrobenzene		21	U	21	430
2-Nitrophenol		29	U	29	430
4-Nitrophenol		270	U	270	2200
N-Nitrosodimethylamine		66	U	66	430
N-Nitrosodi-n-propylamine		21	U	21	430
N-Nitrosodiphenylamine		64	U	64	430
2,2'-oxybis[1-chloropropane]		22	U	22	430
Pentachlorophenol		64	U	64	2200
Phenanthrene		30	U	30	430
Phenol		25	U	25	430
Pyrene		21	U	21	430
1,2,4-Trichlorobenzene		17	U	17	430
2,4,5-Trichlorophenol		77	U	77	430
2,4,6-Trichlorophenol		21	U	21	430

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	66		30 - 135
2-Fluorophenol	73		27 - 135
Nitrobenzene-d5	67		22 - 135
Phenol-d5	61		24 - 135
Terphenyl-d14	84		36 - 135
2,4,6-Tribromophenol	73		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-02(3-5)**

Lab Sample ID: 640-27286-6
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 04/16/2010 1545
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042730.D
Dilution:	1.0			Initial Weight/Volume:	00030.28 g
Date Analyzed:	04/28/2010 0149			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		75	I	29	380
Acenaphthylene		50	U	50	380
Anthracene		84	I	26	380
Benzidine		380	U	380	3100
Benzo[a]anthracene		68	I	14	380
Benzo[a]pyrene		43	I	11	380
Benzo[b]fluoranthene		84	I	6.6	380
Benzo[g,h,i]perylene		42	I	20	380
Benzoic acid		380	U	380	2000
Benzo[k]fluoranthene		41	I	24	380
Benzyl alcohol		28	U	28	380
Bis(2-chloroethoxy)methane		73	I	27	380
Bis(2-chloroethyl)ether		29	U	29	380
Bis(2-ethylhexyl) phthalate		110	I V	13	380
4-Bromophenyl phenyl ether		21	U	21	380
Butyl benzyl phthalate		15	U	15	380
4-Chloroaniline		15	U	15	770
4-Chloro-3-methylphenol		35	U	35	380
2-Chloronaphthalene		20	U	20	380
2-Chlorophenol		20	U	20	380
4-Chlorophenyl phenyl ether		16	U	16	380
Chrysene		160	I	24	380
Dibenz(a,h)anthracene		14	U	14	380
Dibenzofuran		13	U	13	380
1,2-Dichlorobenzene		29	U	29	380
1,3-Dichlorobenzene		23	U	23	380
1,4-Dichlorobenzene		20	U	20	380
3,3'-Dichlorobenzidine		15	U	15	770
2,4-Dichlorophenol		26	U	26	380
Diethyl phthalate		170	I	16	380
2,4-Dimethylphenol		16	U	16	380
Dimethyl phthalate		21	U	21	380
Di-n-butyl phthalate		86	U	86	380
4,6-Dinitro-2-methylphenol		200	U	200	2000
2,4-Dinitrophenol		200	U	200	2000
2,4-Dinitrotoluene		19	U	19	380
2,6-Dinitrotoluene		19	U	19	380
Di-n-octyl phthalate		15	U	15	380
Fluoranthene		280	I	22	380
Fluorene		93	I	56	380
Hexachlorobenzene		29	U	29	380
Hexachlorobutadiene		24	U	24	380
Hexachlorocyclopentadiene		19	U J3	19	380
Hexachloroethane		23	U	23	380
Indeno[1,2,3-cd]pyrene		25	I	16	380
Isophorone		14	U	14	380

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **OM-DP-02(3-5)**

Lab Sample ID: 640-27286-6 | Date Sampled: 04/16/2010 1545
Client Matrix: Solid | % Moisture: 14.9 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68253		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042730.D
Dilution:	1.0			Initial Weight/Volume:	00030.28 g
Date Analyzed:	04/28/2010 0149			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		240	I	13	380
2-Methylphenol		22	U	22	380
3 & 4 Methylphenol		27	U	27	380
Naphthalene		63	I	24	380
2-Nitroaniline		10	U	10	2000
3-Nitroaniline		27	U	27	2000
4-Nitroaniline		27	U	27	2000
Nitrobenzene		19	U	19	380
2-Nitrophenol		26	U	26	380
4-Nitrophenol		240	U	240	2000
N-Nitrosodimethylamine		59	U	59	380
N-Nitrosodi-n-propylamine		19	U	19	380
N-Nitrosodiphenylamine		57	U	57	380
2,2'-oxybis[1-chloropropane]		20	U	20	380
Pentachlorophenol		57	U	57	2000
Phenanthrene		390		27	380
Phenol		22	U	22	380
Pyrene		220	I	19	380
1,2,4-Trichlorobenzene		15	U	15	380
2,4,5-Trichlorophenol		69	U	69	380
2,4,6-Trichlorophenol		19	U	19	380

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		30 - 135
2-Fluorophenol	90		27 - 135
Nitrobenzene-d5	66		22 - 135
Phenol-d5	86		24 - 135
Terphenyl-d14	78		36 - 135
2,4,6-Tribromophenol	86		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-26(3-4)**

Lab Sample ID: 640-27286-7
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 04/16/2010 1640
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042808.D
Dilution:	1.0			Initial Weight/Volume:	00030.10 g
Date Analyzed:	04/28/2010 1321			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		720		31	400
Acenaphthylene		53	U	53	400
Anthracene		140	I	27	400
Benzidine		400	U	400	3300
Benzo[a]anthracene		62	I	15	400
Benzo[a]pyrene		23	I	12	400
Benzo[b]fluoranthene		33	I	7.0	400
Benzo[g,h,i]perylene		21	U	21	400
Benzoic acid		400	U	400	2100
Benzo[k]fluoranthene		26	U	26	400
Benzyl alcohol		29	U	29	400
Bis(2-chloroethoxy)methane		28	U	28	400
Bis(2-chloroethyl)ether		31	U	31	400
Bis(2-ethylhexyl) phthalate		26	I V	13	400
4-Bromophenyl phenyl ether		22	U	22	400
Butyl benzyl phthalate		16	U	16	400
4-Chloroaniline		16	U	16	810
4-Chloro-3-methylphenol		37	U	37	400
2-Chloronaphthalene		21	U	21	400
2-Chlorophenol		21	U	21	400
4-Chlorophenyl phenyl ether		17	U	17	400
Chrysene		65	I	26	400
Dibenz(a,h)anthracene		15	U	15	400
Dibenzofuran		65	I	13	400
1,2-Dichlorobenzene		31	U	31	400
1,3-Dichlorobenzene		24	U	24	400
1,4-Dichlorobenzene		21	U	21	400
3,3'-Dichlorobenzidine		16	U	16	810
2,4-Dichlorophenol		27	U	27	400
Diethyl phthalate		17	U	17	400
2,4-Dimethylphenol		17	U	17	400
Dimethyl phthalate		22	U	22	400
Di-n-butyl phthalate		90	U	90	400
4,6-Dinitro-2-methylphenol		210	U	210	2100
2,4-Dinitrophenol		210	U	210	2100
2,4-Dinitrotoluene		20	U	20	400
2,6-Dinitrotoluene		20	U	20	400
Di-n-octyl phthalate		16	U	16	400
Fluoranthene		600		23	400
Fluorene		510		59	400
Hexachlorobenzene		31	U	31	400
Hexachlorobutadiene		26	U	26	400
Hexachlorocyclopentadiene		20	U J3	20	400
Hexachloroethane		24	U	24	400
Indeno[1,2,3-cd]pyrene		17	U	17	400
Isophorone		15	U	15	400

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-26(3-4)**

Lab Sample ID: 640-27286-7 | Date Sampled: 04/16/2010 1640
Client Matrix: Solid | % Moisture: 18.4 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042808.D
Dilution:	1.0			Initial Weight/Volume:	00030.10 g
Date Analyzed:	04/28/2010 1321			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		13	U	13	400
2-Methylphenol		23	U	23	400
3 & 4 Methylphenol		28	U	28	400
Naphthalene		26	U	26	400
2-Nitroaniline		11	U	11	2100
3-Nitroaniline		28	U	28	2100
4-Nitroaniline		28	U	28	2100
Nitrobenzene		20	U	20	400
2-Nitrophenol		27	U	27	400
4-Nitrophenol		260	U	260	2100
N-Nitrosodimethylamine		62	U	62	400
N-Nitrosodi-n-propylamine		20	U	20	400
N-Nitrosodiphenylamine		60	U	60	400
2,2'-oxybis[1-chloropropane]		21	U	21	400
Pentachlorophenol		60	U	60	2100
Phenanthrene		1200		28	400
Phenol		23	U	23	400
Pyrene		370	I	20	400
1,2,4-Trichlorobenzene		16	U	16	400
2,4,5-Trichlorophenol		72	U	72	400
2,4,6-Trichlorophenol		20	U	20	400

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	49		30 - 135
2-Fluorophenol	71		27 - 135
Nitrobenzene-d5	55		22 - 135
Phenol-d5	65		24 - 135
Terphenyl-d14	55		36 - 135
2,4,6-Tribromophenol	70		24 - 135

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-28(7-11)**

Lab Sample ID: 640-27286-8 | Date Sampled: 04/16/2010 1725
Client Matrix: Solid | % Moisture: 20.2 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042809.D
Dilution:	1.0			Initial Weight/Volume:	00030.25 g
Date Analyzed:	04/28/2010 1345			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		730		31	410
Acenaphthylene		53	U	53	410
Anthracene		150	I	27	410
Benzidine		410	U	410	3400
Benzo[a]anthracene		69	I	15	410
Benzo[a]pyrene		26	I	12	410
Benzo[b]fluoranthene		36	I	7.1	410
Benzo[g,h,i]perylene		21	U	21	410
Benzoic acid		410	U	410	2100
Benzo[k]fluoranthene		26	U	26	410
Benzyl alcohol		30	U	30	410
Bis(2-chloroethoxy)methane		29	U	29	410
Bis(2-chloroethyl)ether		31	U	31	410
Bis(2-ethylhexyl) phthalate		29	I V	14	410
4-Bromophenyl phenyl ether		22	U	22	410
Butyl benzyl phthalate		16	U	16	410
4-Chloroaniline		16	U	16	820
4-Chloro-3-methylphenol		37	U	37	410
2-Chloronaphthalene		21	U	21	410
2-Chlorophenol		21	U	21	410
4-Chlorophenyl phenyl ether		17	U	17	410
Chrysene		68	I	26	410
Dibenz(a,h)anthracene		15	U	15	410
Dibenzofuran		55	I	14	410
1,2-Dichlorobenzene		31	U	31	410
1,3-Dichlorobenzene		25	U	25	410
1,4-Dichlorobenzene		21	U	21	410
3,3'-Dichlorobenzidine		16	U	16	820
2,4-Dichlorophenol		27	U	27	410
Diethyl phthalate		17	U	17	410
2,4-Dimethylphenol		17	U	17	410
Dimethyl phthalate		22	U	22	410
Di-n-butyl phthalate		92	U	92	410
4,6-Dinitro-2-methylphenol		210	U	210	2100
2,4-Dinitrophenol		210	U	210	2100
2,4-Dinitrotoluene		20	U	20	410
2,6-Dinitrotoluene		20	U	20	410
Di-n-octyl phthalate		16	U	16	410
Fluoranthene		630		24	410
Fluorene		530		60	410
Hexachlorobenzene		31	U	31	410
Hexachlorobutadiene		26	U	26	410
Hexachlorocyclopentadiene		20	U J3	20	410
Hexachloroethane		25	U	25	410
Indeno[1,2,3-cd]pyrene		17	U	17	410
Isophorone		15	U	15	410

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-28(7-11)**

Lab Sample ID: 640-27286-8 | Date Sampled: 04/16/2010 1725
Client Matrix: Solid | % Moisture: 20.2 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042809.D
Dilution:	1.0			Initial Weight/Volume:	00030.25 g
Date Analyzed:	04/28/2010 1345			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		14	U	14	410
2-Methylphenol		24	U	24	410
3 & 4 Methylphenol		29	U	29	410
Naphthalene		26	U	26	410
2-Nitroaniline		11	U	11	2100
3-Nitroaniline		29	U	29	2100
4-Nitroaniline		29	U	29	2100
Nitrobenzene		20	U	20	410
2-Nitrophenol		27	U	27	410
4-Nitrophenol		260	U	260	2100
N-Nitrosodimethylamine		63	U	63	410
N-Nitrosodi-n-propylamine		20	U	20	410
N-Nitrosodiphenylamine		61	U	61	410
2,2'-oxybis[1-chloropropane]		21	U	21	410
Pentachlorophenol		61	U	61	2100
Phenanthrene		1200		29	410
Phenol		24	U	24	410
Pyrene		370	I	20	410
1,2,4-Trichlorobenzene		16	U	16	410
2,4,5-Trichlorophenol		73	U	73	410
2,4,6-Trichlorophenol		20	U	20	410

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	53		30 - 135
2-Fluorophenol	74		27 - 135
Nitrobenzene-d5	53		22 - 135
Phenol-d5	66		24 - 135
Terphenyl-d14	57		36 - 135
2,4,6-Tribromophenol	70		24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-29(8-9)**

Lab Sample ID: 640-27286-9
Client Matrix: Solid
% Moisture: 19.0

Date Sampled: 04/16/2010 1750
Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042820.D
Dilution:	50			Initial Weight/Volume:	00030.08 g
Date Analyzed:	04/28/2010 1810			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		79000		1500	20000
Acenaphthylene		2600	U	2600	20000
Anthracene		66000		1400	20000
Benzidine		20000	U	20000	170000
Benzo[a]anthracene		18000	I	740	20000
Benzo[a]pyrene		5600	I	590	20000
Benzo[b]fluoranthene		6700	I	350	20000
Benzo[g,h,i]perylene		2100	I	1000	20000
Benzoic acid		20000	U	20000	100000
Benzo[k]fluoranthene		4600	I	1300	20000
Benzyl alcohol		1500	U	1500	20000
Bis(2-chloroethoxy)methane		1400	U	1400	20000
Bis(2-chloroethyl)ether		1500	U	1500	20000
Bis(2-ethylhexyl) phthalate		810	I V	680	20000
4-Bromophenyl phenyl ether		1100	U	1100	20000
Butyl benzyl phthalate		800	U	800	20000
4-Chloroaniline		800	U	800	41000
4-Chloro-3-methylphenol		1800	U	1800	20000
2-Chloronaphthalene		1000	U	1000	20000
2-Chlorophenol		1000	U	1000	20000
4-Chlorophenyl phenyl ether		860	U	860	20000
Chrysene		15000	I	1300	20000
Dibenz(a,h)anthracene		740	U	740	20000
Dibenzofuran		76000		680	20000
1,2-Dichlorobenzene		1500	U	1500	20000
1,3-Dichlorobenzene		1200	U	1200	20000
1,4-Dichlorobenzene		1000	U	1000	20000
3,3'-Dichlorobenzidine		800	U	800	41000
2,4-Dichlorophenol		1400	U	1400	20000
Diethyl phthalate		860	U	860	20000
2,4-Dimethylphenol		860	U	860	20000
Dimethyl phthalate		1100	U	1100	20000
Di-n-butyl phthalate		4600	U	4600	20000
4,6-Dinitro-2-methylphenol		10000	U	10000	100000
2,4-Dinitrophenol		10000	U	10000	100000
2,4-Dinitrotoluene		990	U	990	20000
2,6-Dinitrotoluene		990	U	990	20000
Di-n-octyl phthalate		800	U	800	20000
Fluoranthene		130000		1200	20000
Fluorene		96000		3000	20000
Hexachlorobenzene		1500	U	1500	20000
Hexachlorobutadiene		1300	U	1300	20000
Hexachlorocyclopentadiene		990	U J3	990	20000
Hexachloroethane		1200	U	1200	20000
Indeno[1,2,3-cd]pyrene		2000	I	860	20000
Isophorone		740	U	740	20000

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-29(8-9)**

Lab Sample ID: 640-27286-9 | Date Sampled: 04/16/2010 1750
Client Matrix: Solid | % Moisture: 19.0 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042820.D
Dilution:	50			Initial Weight/Volume:	00030.08 g
Date Analyzed:	04/28/2010 1810			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		88000		680	20000
2-Methylphenol		1200	U	1200	20000
3 & 4 Methylphenol		1400	U	1400	20000
Naphthalene		91000		1300	20000
2-Nitroaniline		540	U	540	100000
3-Nitroaniline		1400	U	1400	100000
4-Nitroaniline		1400	U	1400	100000
Nitrobenzene		990	U	990	20000
2-Nitrophenol		1400	U	1400	20000
4-Nitrophenol		13000	U	13000	100000
N-Nitrosodimethylamine		3100	U	3100	20000
N-Nitrosodi-n-propylamine		990	U	990	20000
N-Nitrosodiphenylamine		3000	U	3000	20000
2,2'-oxybis[1-chloropropane]		1000	U	1000	20000
Pentachlorophenol		3000	U	3000	100000
Phenanthrene		350000		1400	20000
Phenol		1200	U	1200	20000
Pyrene		86000		990	20000
1,2,4-Trichlorobenzene		800	U	800	20000
2,4,5-Trichlorophenol		3600	U	3600	20000
2,4,6-Trichlorophenol		990	U	990	20000

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	0	J1	30 - 135
2-Fluorophenol	0	J1	27 - 135
Nitrobenzene-d5	0	J1	22 - 135
Phenol-d5	0	J1	24 - 135
Terphenyl-d14	0	J1	36 - 135
2,4,6-Tribromophenol	0	J1	24 - 135

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-30(7-10)**

Lab Sample ID: 640-27286-10 | Date Sampled: 04/16/2010 1825
Client Matrix: Solid | % Moisture: 52.9 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042821.D
Dilution:	20			Initial Weight/Volume:	00030.26 g
Date Analyzed:	04/28/2010 1834			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
Acenaphthene		27000		1100	14000
Acenaphthylene		1800	U	1800	14000
Anthracene		24000		930	14000
Benzidine		14000	U	14000	110000
Benzo[a]anthracene		9800	I	510	14000
Benzo[a]pyrene		3400	I	400	14000
Benzo[b]fluoranthene		4300	I	240	14000
Benzo[g,h,i]perylene		1200	I	720	14000
Benzoic acid		14000	U	14000	72000
Benzo[k]fluoranthene		2500	I	880	14000
Benzyl alcohol		1000	U	1000	14000
Bis(2-chloroethoxy)methane		970	U	970	14000
Bis(2-chloroethyl)ether		1100	U	1100	14000
Bis(2-ethylhexyl) phthalate		460	U	460	14000
4-Bromophenyl phenyl ether		760	U	760	14000
Butyl benzyl phthalate		550	U	550	14000
4-Chloroaniline		550	U	550	28000
4-Chloro-3-methylphenol		1300	U	1300	14000
2-Chloronaphthalene		720	U	720	14000
2-Chlorophenol		720	U	720	14000
4-Chlorophenyl phenyl ether		590	U	590	14000
Chrysene		8700	I	880	14000
Dibenz(a,h)anthracene		510	U	510	14000
Dibenzofuran		19000		460	14000
1,2-Dichlorobenzene		1100	U	1100	14000
1,3-Dichlorobenzene		840	U	840	14000
1,4-Dichlorobenzene		720	U	720	14000
3,3'-Dichlorobenzidine		550	U	550	28000
2,4-Dichlorophenol		930	U	930	14000
Diethyl phthalate		590	U	590	14000
2,4-Dimethylphenol		590	U	590	14000
Dimethyl phthalate		760	U	760	14000
Di-n-butyl phthalate		3100	U	3100	14000
4,6-Dinitro-2-methylphenol		7200	U	7200	72000
2,4-Dinitrophenol		7200	U	7200	72000
2,4-Dinitrotoluene		670	U	670	14000
2,6-Dinitrotoluene		670	U	670	14000
Di-n-octyl phthalate		550	U	550	14000
Fluoranthene		61000		800	14000
Fluorene		35000		2000	14000
Hexachlorobenzene		1100	U	1100	14000
Hexachlorobutadiene		880	U	880	14000
Hexachlorocyclopentadiene		670	U J3	670	14000
Hexachloroethane		840	U	840	14000
Indeno[1,2,3-cd]pyrene		1100	I	590	14000
Isophorone		510	U	510	14000

Analytical Data

Client: META Environmental | Job Number: 640-27286-1

Client Sample ID: **TM-DP-30(7-10)**

Lab Sample ID: 640-27286-10 | Date Sampled: 04/16/2010 1825
Client Matrix: Solid | % Moisture: 52.9 | Date Received: 04/17/2010 1215

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 640-68283		Instrument ID:	SMC
Preparation:	3550B	Prep Batch: 640-67979		Lab File ID:	C0042821.D
Dilution:	20			Initial Weight/Volume:	00030.26 g
Date Analyzed:	04/28/2010 1834			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	PQL
2-Methylnaphthalene		6900	I	460	14000
2-Methylphenol		800	U	800	14000
3 & 4 Methylphenol		970	U	970	14000
Naphthalene		880	U	880	14000
2-Nitroaniline		370	U	370	72000
3-Nitroaniline		970	U	970	72000
4-Nitroaniline		970	U	970	72000
Nitrobenzene		670	U	670	14000
2-Nitrophenol		930	U	930	14000
4-Nitrophenol		8800	U	8800	72000
N-Nitrosodimethylamine		2100	U	2100	14000
N-Nitrosodi-n-propylamine		670	U	670	14000
N-Nitrosodiphenylamine		2100	U	2100	14000
2,2'-oxybis[1-chloropropane]		720	U	720	14000
Pentachlorophenol		2100	U	2100	72000
Phenanthrene		130000		970	14000
Phenol		800	U	800	14000
Pyrene		44000		670	14000
1,2,4-Trichlorobenzene		550	U	550	14000
2,4,5-Trichlorophenol		2500	U	2500	14000
2,4,6-Trichlorophenol		670	U	670	14000

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	0	J1	30 - 135
2-Fluorophenol	0	J1	27 - 135
Nitrobenzene-d5	0	J1	22 - 135
Phenol-d5	0	J1	24 - 135
Terphenyl-d14	0	J1	36 - 135
2,4,6-Tribromophenol	0	J1	24 - 135

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-08(6-11)**

Lab Sample ID: 640-27286-1
Client Matrix: Solid
% Moisture: 21.4
Date Sampled: 04/16/2010 0945
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1720
Date Prepared: 04/19/2010 1430
Analysis Batch: 640-68041
Prep Batch: 640-67845
Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.580 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		9600	V	2.6	22
Antimony		0.35	U	0.35	2.2
Arsenic		0.57	I	0.24	1.1
Barium		8.7		0.076	1.1
Beryllium		0.092	I	0.068	0.44
Cadmium		0.052	U	0.052	0.55
Calcium		430		8.9	55
Chromium		11		0.14	1.1
Cobalt		0.80	I	0.18	1.1
Copper		0.37	I	0.36	2.2
Iron		2000	V	1.0	5.5
Lead		4.1		0.21	0.55
Magnesium		410		5.7	55
Manganese		12		0.10	1.1
Nickel		1.8	I	0.28	4.4
Potassium		330		11	110
Selenium		0.45	U	0.45	1.1
Silver		0.12	U	0.12	1.1
Sodium		58	I	31	110
Thallium		0.42	U	0.42	1.1
Vanadium		10		0.10	1.1
Zinc		3.7	V	0.31	2.2

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1243
Date Prepared: 04/22/2010 0900
Analysis Batch: 660-93399
Prep Batch: 660-93390
Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.32 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.020	I	0.0089	0.024

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-07(2-4)**

Lab Sample ID: 640-27286-2
Client Matrix: Solid
% Moisture: 57.4
Date Sampled: 04/16/2010 1020
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1726
Date Prepared: 04/19/2010 1430
Analysis Batch: 640-68041
Prep Batch: 640-67845
Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.5118 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		7100	V	5.5	46
Antimony		4.6	V	0.73	4.6
Arsenic		63		0.50	2.3
Barium		90		0.16	2.3
Beryllium		0.54	I	0.14	0.92
Cadmium		0.23	I	0.11	1.1
Calcium		17000		19	110
Chromium		17		0.30	2.3
Cobalt		3.8		0.37	2.3
Copper		22		0.76	4.6
Iron		14000	V	2.1	11
Lead		130		0.44	1.1
Magnesium		1700		12	110
Manganese		78		0.21	2.3
Nickel		32		0.60	9.2
Potassium		410		23	230
Selenium		0.94	U	0.94	2.3
Silver		0.25	U	0.25	2.3
Sodium		180	I	64	230
Thallium		0.87	U	0.87	2.3
Vanadium		120		0.22	2.3
Zinc		160	V	0.64	4.6

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1245
Date Prepared: 04/22/2010 0900
Analysis Batch: 660-93399
Prep Batch: 660-93390
Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.29 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.065		0.018	0.049

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-05(8-12)**

Lab Sample ID: 640-27286-3
Client Matrix: Solid
% Moisture: 18.1

Date Sampled: 04/16/2010 1145
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-68041		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67845		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.581 g
Date Analyzed:	04/22/2010 1724			Final Weight/Volume:	50 mL
Date Prepared:	04/19/2010 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		11000	V	2.5	21
Antimony		0.34	U	0.34	2.1
Arsenic		0.64	I	0.23	1.1
Barium		12		0.072	1.1
Beryllium		0.18	I	0.065	0.42
Cadmium		0.049	U	0.049	0.53
Calcium		110		8.5	53
Chromium		8.8		0.14	1.1
Cobalt		0.86	I	0.17	1.1
Copper		0.42	I	0.35	2.1
Iron		1800	V	0.98	5.3
Lead		4.5		0.20	0.53
Magnesium		450		5.5	53
Manganese		14		0.097	1.1
Nickel		3.0	I	0.27	4.2
Potassium		260		11	110
Selenium		0.43	I	0.43	1.1
Silver		0.12	U	0.12	1.1
Sodium		97	I	29	110
Thallium		0.40	U	0.40	1.1
Vanadium		10		0.10	1.1
Zinc		3.4	V	0.29	2.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 660-93399		Instrument ID:	PS200II
Preparation:	7471A	Prep Batch: 660-93390		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.30 g
Date Analyzed:	04/22/2010 1247			Final Weight/Volume:	50 mL
Date Prepared:	04/22/2010 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.0092	U	0.0092	0.024

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-04(35-40)**

Lab Sample ID: 640-27286-4
Client Matrix: Solid
% Moisture: 20.5

Date Sampled: 04/16/2010 1250
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1729
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.528 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		1400	V	2.9	24
Antimony		0.97	I V	0.38	2.4
Arsenic		1.7		0.26	1.2
Barium		5.3		0.082	1.2
Beryllium		0.28	I	0.074	0.48
Cadmium		0.14	I	0.056	0.60
Calcium		1400		9.6	60
Chromium		5.3		0.15	1.2
Cobalt		0.69	I	0.19	1.2
Copper		0.89	I	0.39	2.4
Iron		3300	V	1.1	6.0
Lead		0.65		0.23	0.60
Magnesium		290		6.2	60
Manganese		12		0.11	1.2
Nickel		1.8	I	0.31	4.8
Potassium		110	I	12	120
Selenium		0.49	U	0.49	1.2
Silver		0.13	U	0.13	1.2
Sodium		33	U	33	120
Thallium		0.45	U	0.45	1.2
Vanadium		5.3		0.11	1.2
Zinc		2.8	V	0.33	2.4

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1249
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.28 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.010	U	0.010	0.027

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-03(8-12)**

Lab Sample ID: 640-27286-5
Client Matrix: Solid
% Moisture: 24.1

Date Sampled: 04/16/2010 1420
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1731
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.568 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		4800	V	2.8	23
Antimony		1.1	I V	0.37	2.3
Arsenic		0.78	I	0.26	1.2
Barium		6.8		0.080	1.2
Beryllium		0.083	I	0.072	0.46
Cadmium		0.055	U	0.055	0.58
Calcium		710		9.4	58
Chromium		3.8		0.15	1.2
Cobalt		0.41	I	0.19	1.2
Copper		0.44	I	0.38	2.3
Iron		2300	V	1.1	5.8
Lead		2.9		0.22	0.58
Magnesium		240		6.0	58
Manganese		10		0.11	1.2
Nickel		1.8	I	0.30	4.6
Potassium		120		12	120
Selenium		0.48	U	0.48	1.2
Silver		0.13	U	0.13	1.2
Sodium		170		32	120
Thallium		0.44	U	0.44	1.2
Vanadium		4.2		0.11	1.2
Zinc		2.7	V	0.32	2.3

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1252
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.31 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.011	I	0.0096	0.026

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **OM-DP-02(3-5)**

Lab Sample ID: 640-27286-6
Client Matrix: Solid
% Moisture: 14.9

Date Sampled: 04/16/2010 1545
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1732
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.568 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		6900	V	2.5	21
Antimony		0.86	I V	0.33	2.1
Arsenic		1.8		0.23	1.0
Barium		190		0.071	1.0
Beryllium		0.57		0.064	0.41
Cadmium		0.57		0.049	0.52
Calcium		49000		8.4	52
Chromium		17		0.13	1.0
Cobalt		2.7		0.17	1.0
Copper		8.5		0.34	2.1
Iron		5600	V	0.96	5.2
Lead		120		0.20	0.52
Magnesium		2000		5.4	52
Manganese		330		0.095	1.0
Nickel		10		0.27	4.1
Potassium		610		10	100
Selenium		0.42	U	0.42	1.0
Silver		0.11	U	0.11	1.0
Sodium		410		29	100
Thallium		0.39	U	0.39	1.0
Vanadium		26		0.098	1.0
Zinc		620	V	0.29	2.1

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1258
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.29 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.030		0.0091	0.024

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-26(3-4)**

Lab Sample ID: 640-27286-7
Client Matrix: Solid
% Moisture: 18.4
Date Sampled: 04/16/2010 1640
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1734
Date Prepared: 04/19/2010 1430
Analysis Batch: 640-68041
Prep Batch: 640-67845
Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.549 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		680	V	2.7	22
Antimony		0.36	U	0.36	2.2
Arsenic		1.4		0.25	1.1
Barium		3.0		0.077	1.1
Beryllium		0.069	U	0.069	0.45
Cadmium		0.052	U	0.052	0.56
Calcium		170		9.0	56
Chromium		1.9		0.15	1.1
Cobalt		0.48	I	0.18	1.1
Copper		0.37	U	0.37	2.2
Iron		840	V	1.0	5.6
Lead		1.7		0.21	0.56
Magnesium		58		5.8	56
Manganese		13		0.10	1.1
Nickel		0.50	I	0.29	4.5
Potassium		31	I	11	110
Selenium		0.46	U	0.46	1.1
Silver		0.12	U	0.12	1.1
Sodium		31	U	31	110
Thallium		0.42	U	0.42	1.1
Vanadium		2.4		0.11	1.1
Zinc		1.7	I V	0.31	2.2

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1300
Date Prepared: 04/22/2010 0900
Analysis Batch: 660-93399
Prep Batch: 660-93390
Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.012	I	0.0092	0.025

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-28(7-11)**

Lab Sample ID: 640-27286-8
Client Matrix: Solid
% Moisture: 20.2

Date Sampled: 04/16/2010 1725
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1740
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.597 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		490	V	2.5	21
Antimony		0.34	U	0.34	2.1
Arsenic		0.39	I	0.23	1.0
Barium		2.4		0.072	1.0
Beryllium		0.065	U	0.065	0.42
Cadmium		0.049	U	0.049	0.52
Calcium		140		8.5	52
Chromium		1.4		0.14	1.0
Cobalt		0.26	I	0.17	1.0
Copper		0.35	U	0.35	2.1
Iron		980	V	0.98	5.2
Lead		0.96		0.20	0.52
Magnesium		42	I	5.5	52
Manganese		11		0.097	1.0
Nickel		0.28	I	0.27	4.2
Potassium		22	I	10	100
Selenium		0.43	U	0.43	1.0
Silver		0.12	U	0.12	1.0
Sodium		29	U	29	100
Thallium		0.40	U	0.40	1.0
Vanadium		1.2		0.10	1.0
Zinc		1.6	I V	0.29	2.1

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1218
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.0094	U	0.0094	0.025

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-29(8-9)**

Lab Sample ID: 640-27286-9
Client Matrix: Solid
% Moisture: 19.0

Date Sampled: 04/16/2010 1750
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1738
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.595 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		3100	V	2.5	21
Antimony		0.39	I V	0.33	2.1
Arsenic		1.9		0.23	1.0
Barium		9.9		0.072	1.0
Beryllium		0.23	I	0.064	0.42
Cadmium		0.049	U	0.049	0.52
Calcium		23000		8.4	52
Chromium		5.8		0.13	1.0
Cobalt		0.83	I	0.17	1.0
Copper		5.6		0.34	2.1
Iron		4500	V	0.97	5.2
Lead		5.5		0.20	0.52
Magnesium		830		5.4	52
Manganese		31		0.095	1.0
Nickel		1.6	I	0.27	4.2
Potassium		270		10	100
Selenium		0.43	U	0.43	1.0
Silver		0.11	U	0.11	1.0
Sodium		52	I	29	100
Thallium		0.39	U	0.39	1.0
Vanadium		6.2		0.099	1.0
Zinc		17	V	0.29	2.1

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1302
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.29 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.50		0.0096	0.026

Analytical Data

Client: META Environmental

Job Number: 640-27286-1

Client Sample ID: **TM-DP-30(7-10)**

Lab Sample ID: 640-27286-10
Client Matrix: Solid
% Moisture: 52.9
Date Sampled: 04/16/2010 1825
Date Received: 04/17/2010 1215

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 04/22/2010 1742
Date Prepared: 04/19/2010 1430
Analysis Batch: 640-68041
Prep Batch: 640-67845
Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.566 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Aluminum		8900	V	4.5	38
Antimony		0.60	U	0.60	3.8
Arsenic		3.3		0.41	1.9
Barium		18		0.13	1.9
Beryllium		0.46	I	0.12	0.75
Cadmium		0.088	U	0.088	0.94
Calcium		34000		15	94
Chromium		15		0.24	1.9
Cobalt		2.2		0.30	1.9
Copper		16		0.62	3.8
Iron		9000	V	1.7	9.4
Lead		11		0.36	0.94
Magnesium		2100		9.8	94
Manganese		64		0.17	1.9
Nickel		4.2	I	0.49	7.5
Potassium		720		19	190
Selenium		0.77	U	0.77	1.9
Silver		0.21	U	0.21	1.9
Sodium		180	I	53	190
Thallium		0.71	U	0.71	1.9
Vanadium		15		0.18	1.9
Zinc		42	V	0.53	3.8

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 04/22/2010 1304
Date Prepared: 04/22/2010 0900
Analysis Batch: 660-93399
Prep Batch: 660-93390
Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.31 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Mercury		0.28		0.015	0.041

DATA REPORTING QUALIFIERS

Client: META Environmental Job Number: 640-27286-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	L	Off-scale high. Actual value is known to be greater than the value given.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 640-68012					
640-27286-1	OM-DP-08(6-11)	T	Solid	5035	
Prep Batch: 640-68065					
640-27286-2	OM-DP-07(2-4)	T	Solid	5035	
640-27286-3	OM-DP-05(8-12)	T	Solid	5035	
640-27286-4	OM-DP-04(35-40)	T	Solid	5035	
640-27286-5	OM-DP-03(8-12)	T	Solid	5035	
640-27286-6	OM-DP-02(3-5)	T	Solid	5035	
640-27286-7	TM-DP-26(3-4)	T	Solid	5035	
640-27286-8	TM-DP-28(7-11)	T	Solid	5035	
640-27286-9	TM-DP-29(8-9)	T	Solid	5035	
640-27286-10	TM-DP-30(7-10)	T	Solid	5035	
Analysis Batch:640-68096					
LCS 640-68096/3	Lab Control Sample	T	Solid	8260B	
LCSD 640-68096/4	Lab Control Sample Duplicate	T	Solid	8260B	
MB 640-68096/5	Method Blank	T	Solid	8260B	
640-27286-1	OM-DP-08(6-11)	T	Solid	8260B	640-68012
640-27286-2	OM-DP-07(2-4)	T	Solid	8260B	640-68065
640-27286-4	OM-DP-04(35-40)	T	Solid	8260B	640-68065
640-27286-5	OM-DP-03(8-12)	T	Solid	8260B	640-68065
640-27286-6	OM-DP-02(3-5)	T	Solid	8260B	640-68065
640-27286-7	TM-DP-26(3-4)	T	Solid	8260B	640-68065
640-27286-8	TM-DP-28(7-11)	T	Solid	8260B	640-68065
640-27286-9	TM-DP-29(8-9)	T	Solid	8260B	640-68065
640-27286-10	TM-DP-30(7-10)	T	Solid	8260B	640-68065
Analysis Batch:640-68154					
LCS 640-68154/3	Lab Control Sample	T	Solid	8260B	
LCSD 640-68154/4	Lab Control Sample Duplicate	T	Solid	8260B	
MB 640-68154/5	Method Blank	T	Solid	8260B	
640-27286-3	OM-DP-05(8-12)	T	Solid	8260B	640-68065

Report Basis
T = Total

Quality Control Results

Client: META Environmental Job Number: 640-27286-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 640-67979					
LCS 640-67979/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 640-67979/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 640-67979/1-A	Method Blank	T	Solid	3550B	
640-27286-1	OM-DP-08(6-11)	T	Solid	3550B	
640-27286-1MS	Matrix Spike	T	Solid	3550B	
640-27286-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
640-27286-2	OM-DP-07(2-4)	T	Solid	3550B	
640-27286-3	OM-DP-05(8-12)	T	Solid	3550B	
640-27286-4	OM-DP-04(35-40)	T	Solid	3550B	
640-27286-5	OM-DP-03(8-12)	T	Solid	3550B	
640-27286-6	OM-DP-02(3-5)	T	Solid	3550B	
640-27286-7	TM-DP-26(3-4)	T	Solid	3550B	
640-27286-8	TM-DP-28(7-11)	T	Solid	3550B	
640-27286-9	TM-DP-29(8-9)	T	Solid	3550B	
640-27286-10	TM-DP-30(7-10)	T	Solid	3550B	
Analysis Batch:640-68253					
LCS 640-67979/2-A	Lab Control Sample	T	Solid	8270C	640-67979
LCSD 640-67979/3-A	Lab Control Sample Duplicate	T	Solid	8270C	640-67979
MB 640-67979/1-A	Method Blank	T	Solid	8270C	640-67979
640-27286-1	OM-DP-08(6-11)	T	Solid	8270C	640-67979
640-27286-1MS	Matrix Spike	T	Solid	8270C	640-67979
640-27286-1MSD	Matrix Spike Duplicate	T	Solid	8270C	640-67979
640-27286-2	OM-DP-07(2-4)	T	Solid	8270C	640-67979
640-27286-3	OM-DP-05(8-12)	T	Solid	8270C	640-67979
640-27286-4	OM-DP-04(35-40)	T	Solid	8270C	640-67979
640-27286-5	OM-DP-03(8-12)	T	Solid	8270C	640-67979
640-27286-6	OM-DP-02(3-5)	T	Solid	8270C	640-67979
Analysis Batch:640-68283					
640-27286-7	TM-DP-26(3-4)	T	Solid	8270C	640-67979
640-27286-8	TM-DP-28(7-11)	T	Solid	8270C	640-67979
640-27286-9	TM-DP-29(8-9)	T	Solid	8270C	640-67979
640-27286-10	TM-DP-30(7-10)	T	Solid	8270C	640-67979

Report Basis
T = Total

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 640-67845					
LCS 640-67845/2-A	Lab Control Sample	T	Solid	3050B	
LCSD 640-67845/3-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 640-67845/1-A	Method Blank	T	Solid	3050B	
640-27286-1	OM-DP-08(6-11)	T	Solid	3050B	
640-27286-2	OM-DP-07(2-4)	T	Solid	3050B	
640-27286-3	OM-DP-05(8-12)	T	Solid	3050B	
640-27286-4	OM-DP-04(35-40)	T	Solid	3050B	
640-27286-5	OM-DP-03(8-12)	T	Solid	3050B	
640-27286-6	OM-DP-02(3-5)	T	Solid	3050B	
640-27286-7	TM-DP-26(3-4)	T	Solid	3050B	
640-27286-8	TM-DP-28(7-11)	T	Solid	3050B	
640-27286-9	TM-DP-29(8-9)	T	Solid	3050B	
640-27286-10	TM-DP-30(7-10)	T	Solid	3050B	
640-27286-10DU	Duplicate	T	Solid	3050B	
640-27286-10MS	Matrix Spike	T	Solid	3050B	
640-27286-10MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:640-68041					
LCS 640-67845/2-A	Lab Control Sample	T	Solid	6010B	640-67845
LCSD 640-67845/3-A	Lab Control Sample Duplicate	T	Solid	6010B	640-67845
MB 640-67845/1-A	Method Blank	T	Solid	6010B	640-67845
640-27286-1	OM-DP-08(6-11)	T	Solid	6010B	640-67845
640-27286-2	OM-DP-07(2-4)	T	Solid	6010B	640-67845
640-27286-3	OM-DP-05(8-12)	T	Solid	6010B	640-67845
640-27286-4	OM-DP-04(35-40)	T	Solid	6010B	640-67845
640-27286-5	OM-DP-03(8-12)	T	Solid	6010B	640-67845
640-27286-6	OM-DP-02(3-5)	T	Solid	6010B	640-67845
640-27286-7	TM-DP-26(3-4)	T	Solid	6010B	640-67845
640-27286-8	TM-DP-28(7-11)	T	Solid	6010B	640-67845
640-27286-9	TM-DP-29(8-9)	T	Solid	6010B	640-67845
640-27286-10	TM-DP-30(7-10)	T	Solid	6010B	640-67845
640-27286-10DU	Duplicate	T	Solid	6010B	640-67845
640-27286-10MS	Matrix Spike	T	Solid	6010B	640-67845
640-27286-10MSD	Matrix Spike Duplicate	T	Solid	6010B	640-67845

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 660-93390					
LCS 660-93390/2-A	Lab Control Sample	T	Solid	7471A	
MB 660-93390/1-A	Method Blank	T	Solid	7471A	
640-27286-1	OM-DP-08(6-11)	T	Solid	7471A	
640-27286-2	OM-DP-07(2-4)	T	Solid	7471A	
640-27286-3	OM-DP-05(8-12)	T	Solid	7471A	
640-27286-4	OM-DP-04(35-40)	T	Solid	7471A	
640-27286-5	OM-DP-03(8-12)	T	Solid	7471A	
640-27286-6	OM-DP-02(3-5)	T	Solid	7471A	
640-27286-7	TM-DP-26(3-4)	T	Solid	7471A	
640-27286-8	TM-DP-28(7-11)	T	Solid	7471A	
640-27286-8MS	Matrix Spike	T	Solid	7471A	
640-27286-8MSD	Matrix Spike Duplicate	T	Solid	7471A	
640-27286-9	TM-DP-29(8-9)	T	Solid	7471A	
640-27286-10	TM-DP-30(7-10)	T	Solid	7471A	
Analysis Batch:660-93399					
LCS 660-93390/2-A	Lab Control Sample	T	Solid	7471A	660-93390
MB 660-93390/1-A	Method Blank	T	Solid	7471A	660-93390
640-27286-1	OM-DP-08(6-11)	T	Solid	7471A	660-93390
640-27286-2	OM-DP-07(2-4)	T	Solid	7471A	660-93390
640-27286-3	OM-DP-05(8-12)	T	Solid	7471A	660-93390
640-27286-4	OM-DP-04(35-40)	T	Solid	7471A	660-93390
640-27286-5	OM-DP-03(8-12)	T	Solid	7471A	660-93390
640-27286-6	OM-DP-02(3-5)	T	Solid	7471A	660-93390
640-27286-7	TM-DP-26(3-4)	T	Solid	7471A	660-93390
640-27286-8	TM-DP-28(7-11)	T	Solid	7471A	660-93390
640-27286-8MS	Matrix Spike	T	Solid	7471A	660-93390
640-27286-8MSD	Matrix Spike Duplicate	T	Solid	7471A	660-93390
640-27286-9	TM-DP-29(8-9)	T	Solid	7471A	660-93390
640-27286-10	TM-DP-30(7-10)	T	Solid	7471A	660-93390

Report Basis
T = Total

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
640-27286-1	OM-DP-08(6-11)	97	92	99
640-27286-2	OM-DP-07(2-4)	91	91	95
640-27286-3	OM-DP-05(8-12)	100	95	99
640-27286-4	OM-DP-04(35-40)	97	93	98
640-27286-5	OM-DP-03(8-12)	100	90	100
640-27286-6	OM-DP-02(3-5)	98	89	94
640-27286-7	TM-DP-26(3-4)	102	93	99
640-27286-8	TM-DP-28(7-11)	100	91	100
640-27286-9	TM-DP-29(8-9)	104	97	99
640-27286-10	TM-DP-30(7-10)	103	93	100
MB 640-68096/5		101	92	98
MB 640-68154/5		102	94	101
LCS 640-68096/3		101	96	99
LCS 640-68154/3		102	102	102
LCSD 640-68096/4		99	99	99
LCSD 640-68154/4		100	103	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	67-130
DBFM = Dibromofluoromethane	61-130
TOL = Toluene-d8 (Surr)	70-130

Quality Control Results

Client: META Environmental Job Number: 640-27286-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec
640-27286-1	OM-DP-08(6-11)	74	79	70	69	80	80
640-27286-2	OM-DP-07(2-4)	64	71	60	65	78	86
640-27286-3	OM-DP-05(8-12)	47	50	41	43	83	89
640-27286-4	OM-DP-04(35-40)	64	76	63	60	83	70
640-27286-5	OM-DP-03(8-12)	66	73	67	61	84	73
640-27286-6	OM-DP-02(3-5)	77	90	66	86	78	86
640-27286-7	TM-DP-26(3-4)	49	71	55	65	55	70
640-27286-8	TM-DP-28(7-11)	53	74	53	66	57	70
640-27286-9	TM-DP-29(8-9)	0J1	0J1	0J1	0J1	0J1	0J1
640-27286-10	TM-DP-30(7-10)	0J1	0J1	0J1	0J1	0J1	0J1
MB 640-67979/1-A		75	80	71	67	85	67
LCS 640-67979/2-A		74	73	70	69	83	87
LCSD 640-67979/3-A		80	82	78	78	81	86
640-27286-1 MS	OM-DP-08(6-11) MS	60	52	49	54	80	92
640-27286-1 MSD	OM-DP-08(6-11) MSD	62	51	49	55	77	90

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	30-135
2FP = 2-Fluorophenol	27-135
NBZ = Nitrobenzene-d5	22-135
PHL = Phenol-d5	24-135
TPH = Terphenyl-d14	36-135
TBP = 2,4,6-Tribromophenol	24-135

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-68096

Method: 8260B
Preparation: N/A

Lab Sample ID: MB 640-68096/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1226
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042306.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Acetone	13	U	13	50
Benzene	0.26	U	0.26	5.0
Bromobenzene	0.69	U	0.69	5.0
Bromoform	1.1	U	1.1	5.0
Bromomethane	2.4	U	2.4	10
2-Butanone (MEK)	16	U	16	25
Carbon disulfide	0.53	U	0.53	5.0
Carbon tetrachloride	0.39	U	0.39	5.0
Chlorobenzene	0.56	U	0.56	5.0
Chlorobromomethane	1.2	U	1.2	5.0
Chlorodibromomethane	0.76	U	0.76	5.0
Chloroethane	0.73	U	0.73	10
Chloroform	0.45	U	0.45	5.0
Chloromethane	0.26	U	0.26	10
2-Chlorotoluene	0.53	U	0.53	5.0
4-Chlorotoluene	0.60	U	0.60	5.0
cis-1,2-Dichloroethene	0.59	U	0.59	5.0
cis-1,3-Dichloropropene	0.68	U	0.68	5.0
1,2-Dibromo-3-Chloropropane	1.4	U	1.4	10
Dibromomethane	2.1	U	2.1	5.0
Dichlorobromomethane	1.0	U	1.0	5.0
Dichlorodifluoromethane	1.0	U	1.0	5.0
1,1-Dichloroethane	0.39	U	0.39	5.0
1,2-Dichloroethane	0.72	U	0.72	5.0
1,1-Dichloroethene	1.4	U	1.4	5.0
1,2-Dichloropropane	1.5	U	1.5	5.0
1,3-Dichloropropane	0.99	U	0.99	5.0
2,2-Dichloropropane	0.62	U	0.62	5.0
1,1-Dichloropropene	0.88	U	0.88	5.0
Ethylbenzene	0.31	U	0.31	5.0
Ethylene Dibromide	1.3	U	1.3	5.0
Hexachlorobutadiene	0.72	U	0.72	5.0
2-Hexanone	10	U	10	25
Isopropylbenzene	0.46	U	0.46	5.0
4-Isopropyltoluene	0.42	U	0.42	5.0
Methylene Chloride	1.0	U	1.0	5.0
4-Methyl-2-pentanone (MIBK)	12	U	12	25
m-Xylene & p-Xylene	0.71	U	0.71	10
n-Butylbenzene	0.45	U	0.45	5.0
N-Propylbenzene	0.65	U	0.65	5.0
o-Xylene	0.39	U	0.39	5.0
sec-Butylbenzene	0.65	U	0.65	5.0
Styrene	0.42	U	0.42	5.0

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-68096

Method: 8260B
Preparation: N/A

Lab Sample ID: MB 640-68096/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1226
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042306.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
tert-Butylbenzene	0.42	U	0.42	5.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0	5.0
Tetrachloroethene	0.63	U	0.63	5.0
Toluene	0.60	U	0.60	5.0
trans-1,2-Dichloroethene	0.45	U	0.45	5.0
trans-1,3-Dichloropropene	1.3	U	1.3	5.0
1,2,3-Trichlorobenzene	0.61	U	0.61	5.0
1,1,1-Trichloroethane	1.1	U	1.1	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.86	U	0.86	5.0
Trichlorofluoromethane	1.4	U	1.4	5.0
1,2,3-Trichloropropane	1.0	U	1.0	5.0
1,2,4-Trimethylbenzene	0.55	U	0.55	5.0
1,3,5-Trimethylbenzene	0.48	U	0.48	5.0
Vinyl chloride	0.60	U	0.60	10
Xylenes, Total	0.71	U	0.71	10

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	67 - 130
Dibromofluoromethane	92	61 - 130
Toluene-d8 (Surr)	98	70 - 130

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68096

Method: 8260B
Preparation: N/A

LCS Lab Sample ID: LCS 640-68096/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1122
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042304.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 640-68096/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1154
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042305.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	99	95	70 - 130	4	100		
Benzene	89	91	70 - 130	2	50		
Bromobenzene	96	97	70 - 130	1	50		
Bromoform	92	86	70 - 130	7	50		
Bromomethane	142	187	70 - 130	27	100	J3	L J3
2-Butanone (MEK)	88	85	70 - 130	4	50		
Carbon disulfide	108	113	70 - 130	4	50		
Carbon tetrachloride	95	96	70 - 130	1	50		
Chlorobenzene	94	95	70 - 130	1	50		
Chlorobromomethane	88	91	70 - 130	4	50		
Chlorodibromomethane	93	91	70 - 130	2	50		
Chloroethane	114	136	70 - 130	17	100		J3
Chloroform	93	97	70 - 130	4	50		
Chloromethane	97	114	70 - 130	16	100		
2-Chlorotoluene	92	94	70 - 130	2	50		
4-Chlorotoluene	92	93	70 - 130	1	50		
cis-1,2-Dichloroethene	90	95	70 - 130	5	50		
cis-1,3-Dichloropropene	89	89	70 - 130	1	50		
1,2-Dibromo-3-Chloropropane	86	87	70 - 130	0	100		
Dibromomethane	96	93	70 - 130	2	50		
Dichlorobromomethane	93	92	70 - 130	1	50		
Dichlorodifluoromethane	91	110	70 - 130	18	100		
1,1-Dichloroethane	89	93	70 - 130	4	50		
1,2-Dichloroethane	97	95	70 - 130	1	50		
1,1-Dichloroethene	101	104	70 - 130	3	50		
1,2-Dichloropropane	89	90	70 - 130	2	50		
1,3-Dichloropropane	93	92	70 - 130	2	50		
2,2-Dichloropropane	98	104	70 - 130	6	50		
1,1-Dichloropropene	94	94	70 - 130	0	50		
Ethylbenzene	95	94	70 - 130	1	50		
Ethylene Dibromide	94	91	70 - 130	3	50		
Hexachlorobutadiene	102	104	70 - 130	2	100		
2-Hexanone	96	90	70 - 130	7	50		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68096

Method: 8260B
Preparation: N/A

LCS Lab Sample ID: LCS 640-68096/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1122
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042304.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 640-68096/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/23/2010 1154
Date Prepared: N/A

Analysis Batch: 640-68096
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042305.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Isopropylbenzene	93	95	70 - 130	3	50		
4-Isopropyltoluene	93	94	70 - 130	1	50		
Methylene Chloride	91	92	68 - 130	2	50		
4-Methyl-2-pentanone (MIBK)	98	91	70 - 130	8	50		
m-Xylene & p-Xylene	96	96	70 - 130	0	50		
n-Butylbenzene	93	93	70 - 130	0	50		
N-Propylbenzene	91	92	70 - 130	1	50		
o-Xylene	95	96	70 - 130	1	50		
sec-Butylbenzene	91	93	70 - 130	2	50		
Styrene	94	94	70 - 130	0	50		
tert-Butylbenzene	95	95	70 - 130	1	50		
1,1,1,2-Tetrachloroethane	94	93	70 - 130	1	50		
1,1,2,2-Tetrachloroethane	91	87	70 - 130	5	50		
Tetrachloroethene	102	102	59 - 130	1	50		
Toluene	91	92	70 - 130	1	50		
trans-1,2-Dichloroethene	91	96	70 - 130	5	50		
trans-1,3-Dichloropropene	91	89	70 - 130	2	50		
1,2,3-Trichlorobenzene	95	98	70 - 130	3	50		
1,1,1-Trichloroethane	98	99	70 - 130	1	50		
1,1,2-Trichloroethane	91	90	70 - 130	2	50		
Trichloroethene	94	93	66 - 130	1	50		
Trichlorofluoromethane	104	130	70 - 130	23	100		L
1,2,3-Trichloropropane	96	94	33 - 130	2	50		
1,2,4-Trimethylbenzene	93	94	70 - 130	1	50		
1,3,5-Trimethylbenzene	94	95	70 - 130	1	50		
Vinyl chloride	94	112	70 - 130	17	100		
Xylenes, Total	96	96	70 - 130	0	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	99	67 - 130
Dibromofluoromethane	96	99	61 - 130
Toluene-d8 (Surr)	99	99	70 - 130

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-68154

Method: 8260B
Preparation: N/A

Lab Sample ID: MB 640-68154/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1436
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042611.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Acetone	13	U	13	50
Benzene	0.26	U	0.26	5.0
Bromobenzene	0.69	U	0.69	5.0
Bromoform	1.1	U	1.1	5.0
Bromomethane	2.4	U	2.4	10
2-Butanone (MEK)	16	U	16	25
Carbon disulfide	0.53	U	0.53	5.0
Carbon tetrachloride	0.39	U	0.39	5.0
Chlorobenzene	0.56	U	0.56	5.0
Chlorobromomethane	1.2	U	1.2	5.0
Chlorodibromomethane	0.76	U	0.76	5.0
Chloroethane	0.73	U	0.73	10
Chloroform	0.45	U	0.45	5.0
Chloromethane	0.26	U	0.26	10
2-Chlorotoluene	0.53	U	0.53	5.0
4-Chlorotoluene	0.60	U	0.60	5.0
cis-1,2-Dichloroethene	0.59	U	0.59	5.0
cis-1,3-Dichloropropene	0.68	U	0.68	5.0
1,2-Dibromo-3-Chloropropane	1.4	U	1.4	10
Dibromomethane	2.1	U	2.1	5.0
Dichlorobromomethane	1.0	U	1.0	5.0
Dichlorodifluoromethane	1.0	U	1.0	5.0
1,1-Dichloroethane	0.39	U	0.39	5.0
1,2-Dichloroethane	0.72	U	0.72	5.0
1,1-Dichloroethene	1.4	U	1.4	5.0
1,2-Dichloropropane	1.5	U	1.5	5.0
1,3-Dichloropropane	0.99	U	0.99	5.0
2,2-Dichloropropane	0.62	U	0.62	5.0
1,1-Dichloropropene	0.88	U	0.88	5.0
Ethylbenzene	0.31	U	0.31	5.0
Ethylene Dibromide	1.3	U	1.3	5.0
Hexachlorobutadiene	0.72	U	0.72	5.0
2-Hexanone	10	U	10	25
Isopropylbenzene	0.46	U	0.46	5.0
4-Isopropyltoluene	0.42	U	0.42	5.0
Methylene Chloride	1.0	U	1.0	5.0
4-Methyl-2-pentanone (MIBK)	12	U	12	25
m-Xylene & p-Xylene	0.71	U	0.71	10
n-Butylbenzene	0.45	U	0.45	5.0
N-Propylbenzene	0.65	U	0.65	5.0
o-Xylene	0.39	U	0.39	5.0
sec-Butylbenzene	0.65	U	0.65	5.0
Styrene	0.42	U	0.42	5.0

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-68154

Method: 8260B
Preparation: N/A

Lab Sample ID: MB 640-68154/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1436
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042611.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
tert-Butylbenzene	0.42	U	0.42	5.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0	5.0
Tetrachloroethene	0.63	U	0.63	5.0
Toluene	0.60	U	0.60	5.0
trans-1,2-Dichloroethene	0.45	U	0.45	5.0
trans-1,3-Dichloropropene	1.3	U	1.3	5.0
1,2,3-Trichlorobenzene	0.61	U	0.61	5.0
1,1,1-Trichloroethane	1.1	U	1.1	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.86	U	0.86	5.0
Trichlorofluoromethane	1.4	U	1.4	5.0
1,2,3-Trichloropropane	1.0	U	1.0	5.0
1,2,4-Trimethylbenzene	0.55	U	0.55	5.0
1,3,5-Trimethylbenzene	0.48	U	0.48	5.0
Vinyl chloride	0.60	U	0.60	10
Xylenes, Total	0.71	U	0.71	10

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	67 - 130
Dibromofluoromethane	94	61 - 130
Toluene-d8 (Surr)	101	70 - 130

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68154

Method: 8260B
Preparation: N/A

LCS Lab Sample ID: LCS 640-68154/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1228
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042607.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 640-68154/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1300
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042608.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	106	88	70 - 130	19	100		
Benzene	92	73	70 - 130	24	50		
Bromobenzene	110	88	70 - 130	22	50		
Bromoform	100	84	70 - 130	18	50		
Bromomethane	151	166	70 - 130	9	100	J3	L J3
2-Butanone (MEK)	85	73	70 - 130	16	50		
Carbon disulfide	106	86	70 - 130	21	50		
Carbon tetrachloride	98	75	70 - 130	27	50		
Chlorobenzene	103	82	70 - 130	23	50		
Chlorobromomethane	92	76	70 - 130	19	50		
Chlorodibromomethane	101	83	70 - 130	20	50		
Chloroethane	120	132	70 - 130	9	100		J3
Chloroform	96	79	70 - 130	19	50		
Chloromethane	103	109	70 - 130	6	100		
2-Chlorotoluene	104	83	70 - 130	22	50		
4-Chlorotoluene	104	82	70 - 130	24	50		
cis-1,2-Dichloroethene	94	78	70 - 130	19	50		
cis-1,3-Dichloropropene	96	76	70 - 130	24	50		
1,2-Dibromo-3-Chloropropane	99	80	70 - 130	21	100		
Dibromomethane	99	81	70 - 130	20	50		
Dichlorobromomethane	99	78	70 - 130	24	50		
Dichlorodifluoromethane	91	93	70 - 130	3	100		
1,1-Dichloroethane	91	75	70 - 130	19	50		
1,2-Dichloroethane	101	82	70 - 130	20	50		
1,1-Dichloroethene	104	85	70 - 130	21	50		
1,2-Dichloropropane	96	77	70 - 130	23	50		
1,3-Dichloropropane	97	80	70 - 130	20	50		
2,2-Dichloropropane	99	81	70 - 130	20	50		
1,1-Dichloropropene	95	74	70 - 130	25	50		
Ethylbenzene	102	78	70 - 130	27	50		
Ethylene Dibromide	98	80	70 - 130	20	50		
Hexachlorobutadiene	115	90	70 - 130	25	100		
2-Hexanone	96	81	70 - 130	17	50		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68154

Method: 8260B
Preparation: N/A

LCS Lab Sample ID: LCS 640-68154/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1228
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042607.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 640-68154/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/26/2010 1300
Date Prepared: N/A

Analysis Batch: 640-68154
Prep Batch: N/A
Units: ug/Kg

Instrument ID: VMF
Lab File ID: 1F042608.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Isopropylbenzene	104	81	70 - 130	24	50		
4-Isopropyltoluene	106	82	70 - 130	25	50		
Methylene Chloride	91	69	68 - 130	27	50		
4-Methyl-2-pentanone (MIBK)	98	83	70 - 130	16	50		
m-Xylene & p-Xylene	105	81	70 - 130	26	50		
n-Butylbenzene	103	80	70 - 130	25	50		
N-Propylbenzene	101	79	70 - 130	24	50		
o-Xylene	104	82	70 - 130	23	50		
sec-Butylbenzene	103	79	70 - 130	26	50		
Styrene	103	82	70 - 130	23	50		
tert-Butylbenzene	105	83	70 - 130	24	50		
1,1,1,2-Tetrachloroethane	106	83	70 - 130	24	50		
1,1,2,2-Tetrachloroethane	97	80	70 - 130	20	50		
Tetrachloroethene	109	84	59 - 130	26	50		
Toluene	97	74	70 - 130	27	50		
trans-1,2-Dichloroethene	91	73	70 - 130	22	50		
trans-1,3-Dichloropropene	98	78	70 - 130	22	50		
1,2,3-Trichlorobenzene	111	88	70 - 130	23	50		
1,1,1-Trichloroethane	100	77	70 - 130	26	50		
1,1,2-Trichloroethane	97	79	70 - 130	20	50		
Trichloroethene	97	75	66 - 130	26	50		
Trichlorofluoromethane	115	126	70 - 130	9	100		L
1,2,3-Trichloropropane	102	88	33 - 130	15	50		
1,2,4-Trimethylbenzene	106	83	70 - 130	25	50		
1,3,5-Trimethylbenzene	105	82	70 - 130	24	50		
Vinyl chloride	105	110	70 - 130	4	100		
Xylenes, Total	104	81	70 - 130	25	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	102	100	67 - 130
Dibromofluoromethane	102	103	61 - 130
Toluene-d8 (Surr)	102	102	70 - 130

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-67979

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 640-67979/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2149
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042720.D
Initial Weight/Volume: 00030.25 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	PQL
Acenaphthene	25	U	25	330
Acenaphthylene	43	U	43	330
Anthracene	22	U	22	330
Benzidine	330	U	330	2700
Benzo[a]anthracene	12	U	12	330
Benzo[a]pyrene	9.5	U	9.5	330
Benzo[b]fluoranthene	5.7	U	5.7	330
Benzo[g,h,i]perylene	17	U	17	330
Benzoic acid	330	U	330	1700
Benzo[k]fluoranthene	21	U	21	330
Benzyl alcohol	24	U	24	330
Bis(2-chloroethoxy)methane	23	U	23	330
Bis(2-chloroethyl)ether	25	U	25	330
Bis(2-ethylhexyl) phthalate	91.1	I	11	330
4-Bromophenyl phenyl ether	18	U	18	330
Butyl benzyl phthalate	13	U	13	330
4-Chloroaniline	13	U	13	650
4-Chloro-3-methylphenol	30	U	30	330
2-Chloronaphthalene	17	U	17	330
2-Chlorophenol	17	U	17	330
4-Chlorophenyl phenyl ether	14	U	14	330
Chrysene	21	U	21	330
Dibenz(a,h)anthracene	12	U	12	330
Dibenzofuran	11	U	11	330
1,2-Dichlorobenzene	25	U	25	330
1,3-Dichlorobenzene	20	U	20	330
1,4-Dichlorobenzene	17	U	17	330
3,3'-Dichlorobenzidine	13	U	13	650
2,4-Dichlorophenol	22	U	22	330
Diethyl phthalate	14	U	14	330
2,4-Dimethylphenol	14	U	14	330
Dimethyl phthalate	18	U	18	330
Di-n-butyl phthalate	73	U	73	330
4,6-Dinitro-2-methylphenol	170	U	170	1700
2,4-Dinitrophenol	170	U	170	1700
2,4-Dinitrotoluene	16	U	16	330
2,6-Dinitrotoluene	16	U	16	330
Di-n-octyl phthalate	13	U	13	330
Fluoranthene	19	U	19	330
Fluorene	48	U	48	330
Hexachlorobenzene	25	U	25	330
Hexachlorobutadiene	21	U	21	330
Hexachlorocyclopentadiene	16	U	16	330

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-67979

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 640-67979/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2149
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042720.D
Initial Weight/Volume: 00030.25 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	PQL
Hexachloroethane	20	U	20	330
Indeno[1,2,3-cd]pyrene	14	U	14	330
Isophorone	12	U	12	330
2-Methylnaphthalene	11	U	11	330
2-Methylphenol	19	U	19	330
3 & 4 Methylphenol	23	U	23	330
Naphthalene	21	U	21	330
2-Nitroaniline	8.7	U	8.7	1700
3-Nitroaniline	23	U	23	1700
4-Nitroaniline	23	U	23	1700
Nitrobenzene	16	U	16	330
2-Nitrophenol	22	U	22	330
4-Nitrophenol	210	U	210	1700
N-Nitrosodimethylamine	51	U	51	330
N-Nitrosodi-n-propylamine	16	U	16	330
N-Nitrosodiphenylamine	49	U	49	330
2,2'-oxybis[1-chloropropane]	17	U	17	330
Pentachlorophenol	49	U	49	1700
Phenanthrene	23	U	23	330
Phenol	19	U	19	330
Pyrene	16	U	16	330
1,2,4-Trichlorobenzene	13	U	13	330
2,4,5-Trichlorophenol	59	U	59	330
2,4,6-Trichlorophenol	16	U	16	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	75	30 - 135
2-Fluorophenol	80	27 - 135
Nitrobenzene-d5	71	22 - 135
Phenol-d5	67	24 - 135
Terphenyl-d14	85	36 - 135
2,4,6-Tribromophenol	67	24 - 135

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-67979

Method: 8270C
Preparation: 3550B

LCS Lab Sample ID: LCS 640-67979/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2213
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042721.D
Initial Weight/Volume: 00030.23 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 640-67979/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2237
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042722.D
Initial Weight/Volume: 00030.31 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthene	71	74	43 - 100	4	50		
Acenaphthylene	75	79	47 - 100	5	50		
Anthracene	82	82	54 - 100	0	50		
Benzo[a]anthracene	87	87	52 - 110	1	50		
Benzo[a]pyrene	80	79	53 - 110	1	50		
Benzo[b]fluoranthene	79	86	57 - 109	9	50		
Benzo[g,h,i]perylene	86	89	27 - 132	4	50		
Benzoic acid	20	20	10 - 100	0	100	U	U
Benzo[k]fluoranthene	87	84	58 - 109	4	50		
Benzyl alcohol	60	72	45 - 100	18	50		
Bis(2-chloroethoxy)methane	69	76	46 - 100	10	50		
Bis(2-chloroethyl)ether	61	68	41 - 100	9	50		
Bis(2-ethylhexyl) phthalate	94	101	49 - 122	8	50		
4-Bromophenyl phenyl ether	82	90	40 - 100	9	50		
Butyl benzyl phthalate	96	90	50 - 125	6	50		
4-Chloroaniline	45	29	25 - 100	43	50		I
4-Chloro-3-methylphenol	79	85	45 - 100	8	50		
2-Chloronaphthalene	74	81	43 - 100	8	50		
2-Chlorophenol	68	73	46 - 100	8	50		
4-Chlorophenyl phenyl ether	75	80	44 - 100	7	50		
Chrysene	86	89	50 - 119	3	50		
Dibenz(a,h)anthracene	89	91	31 - 130	1	50		
Dibenzofuran	73	78	44 - 100	6	50		
1,2-Dichlorobenzene	57	64	41 - 100	12	50		
1,3-Dichlorobenzene	56	66	40 - 100	16	50		
1,4-Dichlorobenzene	57	65	40 - 100	14	50		
3,3'-Dichlorobenzidine	85	85	21 - 100	0	50		
2,4-Dichlorophenol	75	79	46 - 100	5	50		
Diethyl phthalate	84	86	49 - 100	2	50		
2,4-Dimethylphenol	74	78	44 - 100	4	50		
Dimethyl phthalate	83	85	48 - 100	3	50		
Di-n-butyl phthalate	92	93	60 - 103	1	50		
4,6-Dinitro-2-methylphenol	39	33	10 - 100	18	50	I	I

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-67979

Method: 8270C
Preparation: 3550B

LCS Lab Sample ID: LCS 640-67979/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2213
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042721.D
Initial Weight/Volume: 00030.23 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 640-67979/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/27/2010 2237
Date Prepared: 04/22/2010 0500

Analysis Batch: 640-68253
Prep Batch: 640-67979
Units: ug/Kg

Instrument ID: SMC
Lab File ID: C0042722.D
Initial Weight/Volume: 00030.31 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	19	14	10 - 100	29	50	I	I
2,4-Dinitrotoluene	83	80	53 - 100	4	50		
2,6-Dinitrotoluene	84	88	52 - 100	4	50		
Di-n-octyl phthalate	101	100	47 - 126	2	50		
Fluoranthene	85	85	58 - 108	0	50		
Fluorene	77	80	47 - 100	3	50		
Hexachlorobenzene	87	87	50 - 100	0	50		
Hexachlorobutadiene	69	77	42 - 100	11	50		
Hexachlorocyclopentadiene	14	14	33 - 100	3	50	I J3	I J3
Hexachloroethane	49	57	39 - 100	16	50		
Indeno[1,2,3-cd]pyrene	88	89	29 - 126	0	50		
Isophorone	73	81	45 - 100	10	50		
2-Methylnaphthalene	66	77	45 - 100	15	50		
2-Methylphenol	70	74	46 - 100	6	50		
3 & 4 Methylphenol	65	74	20 - 100	12	50		
Naphthalene	63	74	44 - 100	16	50		
2-Nitroaniline	77	83	50 - 100	7	50	I	I
3-Nitroaniline	65	60	41 - 100	9	50	I	I
4-Nitroaniline	65	66	46 - 105	2	50	I	I
Nitrobenzene	67	77	43 - 100	13	50		
2-Nitrophenol	73	79	45 - 100	8	50		
4-Nitrophenol	77	75	30 - 119	3	50	I	I
N-Nitrosodimethylamine	56	61	30 - 100	9	50		
N-Nitrosodi-n-propylamine	68	73	41 - 100	7	50		
N-Nitrosodiphenylamine	85	85	51 - 100	1	50		
2,2'-oxybis[1-chloropropane]	60	66	43 - 100	10	50		
Pentachlorophenol	51	46	10 - 100	11	50	I	I
Phenanthrene	81	84	53 - 100	4	50		
Phenol	69	74	44 - 100	7	50		
Pyrene	83	82	46 - 120	2	50		
1,2,4-Trichlorobenzene	65	73	40 - 100	11	50		
2,4,5-Trichlorophenol	76	77	43 - 100	0	50		
2,4,6-Trichlorophenol	76	83	45 - 100	9	50		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	74	80	30 - 135
2-Fluorophenol	73	82	27 - 135
Nitrobenzene-d5	70	78	22 - 135
Phenol-d5	69	78	24 - 135
Terphenyl-d14	83	81	36 - 135
2,4,6-Tribromophenol	87	86	24 - 135

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-67979

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042723.D
Dilution:	1.0			Initial Weight/Volume:	00030.29 g
Date Analyzed:	04/27/2010 2301			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

MSD Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042724.D
Dilution:	1.0			Initial Weight/Volume:	00030.12 g
Date Analyzed:	04/27/2010 2325			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	66	63	43 - 100	3	50		
Acenaphthylene	70	66	47 - 100	4	50		
Anthracene	80	79	54 - 100	2	50		
Benzo[a]anthracene	89	84	52 - 110	2	50		
Benzo[a]pyrene	77	88	53 - 110	16	50		
Benzo[b]fluoranthene	81	84	57 - 109	7	50		
Benzo[g,h,i]perylene	87	81	27 - 132	5	50		
Benzoic acid	48	0	10 - 100	NC	100	I	U J3
Benzo[k]fluoranthene	86	79	58 - 109	6	50		
Benzyl alcohol	52	49	45 - 100	4	50		
Bis(2-chloroethoxy)methane	53	48	46 - 100	9	50		
Bis(2-chloroethyl)ether	43	37	41 - 100	14	50		J3
Bis(2-ethylhexyl) phthalate	94	93	49 - 122	1	50		
4-Bromophenyl phenyl ether	82	79	40 - 100	2	50		
Butyl benzyl phthalate	91	87	50 - 125	2	50		
4-Chloroaniline	54	54	25 - 100	2	50		
4-Chloro-3-methylphenol	81	72	45 - 100	9	50		
2-Chloronaphthalene	62	59	43 - 100	2	50		
2-Chlorophenol	50	47	46 - 100	4	50		
4-Chlorophenyl phenyl ether	74	69	44 - 100	6	50		
Chrysene	84	79	50 - 119	5	50		
Dibenz(a,h)anthracene	86	82	31 - 130	3	50		
Dibenzofuran	72	67	44 - 100	5	50		
1,2-Dichlorobenzene	36	31	41 - 100	11	50	J3	J3
1,3-Dichlorobenzene	35	27	40 - 100	23	50	J3	J3
1,4-Dichlorobenzene	37	29	40 - 100	21	50	J3	J3
3,3'-Dichlorobenzidine	84	89	21 - 100	9	50		
2,4-Dichlorophenol	63	61	46 - 100	1	50		
Diethyl phthalate	83	77	49 - 100	5	50		
2,4-Dimethylphenol	64	58	44 - 100	7	50		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-67979

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042723.D
Dilution:	1.0			Initial Weight/Volume:	00030.29 g
Date Analyzed:	04/27/2010 2301			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

MSD Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042724.D
Dilution:	1.0			Initial Weight/Volume:	00030.12 g
Date Analyzed:	04/27/2010 2325			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dimethyl phthalate	80	76	48 - 100	3	50		
Di-n-butyl phthalate	93	86	60 - 103	5	50		
4,6-Dinitro-2-methylphenol	64	62	10 - 100	0	50	I	I
2,4-Dinitrophenol	42	30	10 - 100	30	50	I	I
2,4-Dinitrotoluene	86	79	53 - 100	6	50		
2,6-Dinitrotoluene	83	76	52 - 100	7	50		
Di-n-octyl phthalate	100	98	47 - 126	0	50		
Fluoranthene	87	80	58 - 108	7	50		
Fluorene	74	68	47 - 100	5	50		
Hexachlorobenzene	84	79	50 - 100	3	50		
Hexachlorobutadiene	48	37	42 - 100	21	50		J3
Hexachlorocyclopentadiene	10	8	33 - 100	20	50	I J3	I J3
Hexachloroethane	34	26	39 - 100	24	50	J3	J3
Indeno[1,2,3-cd]pyrene	89	84	29 - 126	3	50		
Isophorone	61	58	45 - 100	3	50		
2-Methylnaphthalene	57	54	45 - 100	2	50		
2-Methylphenol	54	50	46 - 100	5	50		
3 & 4 Methylphenol	56	76	20 - 100	32	50		
Naphthalene	47	43	44 - 100	8	50		J3
2-Nitroaniline	79	75	50 - 100	4	50	I	I
3-Nitroaniline	73	71	41 - 100	0	50	I	I
4-Nitroaniline	72	69	46 - 105	3	50	I	I
Nitrobenzene	53	47	43 - 100	10	50		
2-Nitrophenol	56	50	45 - 100	7	50		
4-Nitrophenol	82	90	30 - 119	13	50	I	I
N-Nitrosodimethylamine	37	27	30 - 100	26	50		J3
N-Nitrosodi-n-propylamine	54	51	41 - 100	3	50		
N-Nitrosodiphenylamine	82	91	51 - 100	14	50		
2,2'-oxybis[1-chloropropane]	43	36	43 - 100	15	50		J3
Pentachlorophenol	60	61	10 - 100	5	50	I	I

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-67979

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042723.D
Dilution:	1.0			Initial Weight/Volume:	00030.29 g
Date Analyzed:	04/27/2010 2301			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

MSD Lab Sample ID:	640-27286-1	Analysis Batch:	640-68253	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	640-67979	Lab File ID:	C0042724.D
Dilution:	1.0			Initial Weight/Volume:	00030.12 g
Date Analyzed:	04/27/2010 2325			Final Weight/Volume:	1.0 mL
Date Prepared:	04/22/2010 0500			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenanthrene	82	81	53 - 100	2	50		
Phenol	55	50	44 - 100	7	50		
Pyrene	81	76	46 - 120	4	50		
1,2,4-Trichlorobenzene	46	42	40 - 100	5	50		
2,4,5-Trichlorophenol	75	73	43 - 100	1	50		
2,4,6-Trichlorophenol	77	71	45 - 100	6	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	60	62	30 - 135
2-Fluorophenol	52	51	27 - 135
Nitrobenzene-d5	49	49	22 - 135
Phenol-d5	54	55	24 - 135
Terphenyl-d14	80	77	36 - 135
2,4,6-Tribromophenol	92	90	24 - 135

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 640-67845

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 640-67845/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1635
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.561 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	2.19	I	2.1	18
Antimony	0.471	I	0.29	1.8
Arsenic	0.20	U	0.20	0.89
Barium	0.061	U	0.061	0.89
Beryllium	0.055	U	0.055	0.36
Cadmium	0.042	U	0.042	0.45
Calcium	7.2	U	7.2	45
Chromium	0.12	U	0.12	0.89
Cobalt	0.14	U	0.14	0.89
Copper	0.29	U	0.29	1.8
Iron	0.911	I	0.83	4.5
Lead	0.17	U	0.17	0.45
Magnesium	4.6	U	4.6	45
Manganese	0.082	U	0.082	0.89
Nickel	0.23	U	0.23	3.6
Potassium	8.9	U	8.9	89
Selenium	0.37	U	0.37	0.89
Silver	0.098	U	0.098	0.89
Sodium	25	U	25	89
Thallium	0.34	U	0.34	0.89
Vanadium	0.085	U	0.085	0.89
Zinc	0.474	I	0.25	1.8

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-67845

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 640-67845/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1640
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.561 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 640-67845/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1641
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.563 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	103	102	80 - 120	1	20		
Antimony	104	102	80 - 120	3	20		
Arsenic	104	102	80 - 120	2	20		
Barium	105	104	80 - 120	1	20		
Beryllium	104	104	80 - 120	1	20		
Cadmium	102	101	80 - 120	1	20		
Calcium	102	102	80 - 120	0	20		
Chromium	105	105	80 - 120	1	20		
Cobalt	104	103	80 - 120	1	20		
Copper	104	103	80 - 120	1	20		
Iron	106	105	80 - 120	1	20		
Lead	106	106	80 - 120	1	20		
Magnesium	99	100	80 - 120	0	20		
Manganese	105	104	80 - 120	1	20		
Nickel	104	104	80 - 120	1	20		
Potassium	98	97	80 - 120	1	20		
Selenium	95	94	80 - 120	1	20		
Silver	102	98	80 - 120	5	20		
Sodium	103	108	80 - 120	4	20		
Thallium	114	113	80 - 120	1	20		
Vanadium	103	103	80 - 120	1	20		
Zinc	103	103	80 - 120	1	20		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-67845

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 640-27286-10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1753
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.580 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 640-27286-10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1754
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.553 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	970	870	75 - 125	2	20	J3	J3
Antimony	73	79	75 - 125	12	20	J3	
Arsenic	90	97	75 - 125	12	20		
Barium	92	99	75 - 125	11	20		
Beryllium	93	99	75 - 125	11	20		
Cadmium	86	93	75 - 125	12	20		
Calcium	877	1270	75 - 125	9	20	J3	J3
Chromium	98	105	75 - 125	8	20		
Cobalt	90	96	75 - 125	11	20		
Copper	89	90	75 - 125	5	20		
Iron	678	636	75 - 125	0	20	J3	J3
Lead	96	100	75 - 125	9	20		
Magnesium	128	98	75 - 125	7	20	J3	
Manganese	95	101	75 - 125	6	20		
Nickel	89	96	75 - 125	12	20		
Potassium	104	104	75 - 125	3	20		
Selenium	78	83	75 - 125	11	20		
Silver	89	95	75 - 125	12	20		
Sodium	86	94	75 - 125	11	20		
Thallium	98	106	75 - 125	12	20		
Vanadium	93	99	75 - 125	10	20		
Zinc	92	97	75 - 125	7	20		

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Duplicate - Batch: 640-67845

Method: 6010B
Preparation: 3050B

Lab Sample ID: 640-27286-10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1750
Date Prepared: 04/19/2010 1430

Analysis Batch: 640-68041
Prep Batch: 640-67845
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.554 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	8900		9010	1	20	
Antimony	0.60	U	0.837	NC	20	I
Arsenic	3.3		3.98	17	20	
Barium	18		21.1	18	20	
Beryllium	0.46	I	0.474	3	20	I
Cadmium	0.088	U	0.137	NC	20	I
Calcium	34000		56000	48	20	J3
Chromium	15		15.4	3	20	
Cobalt	2.2		2.20	0	20	
Copper	16		16.8	3	20	
Iron	9000		9470	5	20	
Lead	11		13.4	20	20	
Magnesium	2100		2280	7	20	
Manganese	64		70.0	8	20	
Nickel	4.2	I	4.51	7	20	I
Potassium	720		765	6	20	
Selenium	0.77	U	0.79	NC	20	U
Silver	0.21	U	0.21	NC	20	U
Sodium	180	I	188	3	20	I
Thallium	0.71	U	0.73	NC	20	U
Vanadium	15		15.9	3	20	
Zinc	42		51.5	21	20	J3

Quality Control Results

Client: META Environmental

Job Number: 640-27286-1

Method Blank - Batch: 660-93390

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 660-93390/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1211
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390
Units: mg/Kg

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.0075	U	0.0075	0.020

Lab Control Sample - Batch: 660-93390

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 660-93390/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1213
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390
Units: mg/Kg

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.167	0.178	107	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-93390

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 640-27286-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1220
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 640-27286-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/22/2010 1222
Date Prepared: 04/22/2010 0900

Analysis Batch: 660-93399
Prep Batch: 660-93390

Instrument ID: PS200II
Lab File ID: N/A
Initial Weight/Volume: 0.30 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	106	107	80 - 120	1	20		

Jacksonville Service Center
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: BILL ELLIOTT	Lab PM: Marks, Amy	Carrier Tracking No(s):	COC No: 640-20885.1
Client Contact: Mr. Dave Mauro	Phone: 352-339-6839	E-Mail: amy.marks@testamericainc.com		Page: Page 1 of 1
Company: META Environmental				Job #: 640-27286

Address: 49 Clarendon Street	Due Date Requested:
City: Watertown	TAT Requested (days):
State, Zip: MA, 02472	
Phone:	PO #: Purchase Order not requir
Email: dmauro@metaenv.com	WO #:
Project Name: JEA Kennedy Station	Project #: 64002874
Site:	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - Semivolatiles	8260B - Volatiles	6010B - Metals	7471A - Mercury (Tampa)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
OM-DP-08 (6-11)	4/16/10	0845	G	S			Y	Y	Y	Y		POSSIBLE FREE PRODUCT, SPEC. TM 28, 29, 30
OM-DP-07 (2-4)		1020										
OM-DP-05 (8-12)		1145										
OM-DP-04 (35-40)		1250										
OM-DP-03 (8-12)		1420										
OM-DP-02 (3-5)		1545										
TM-DP-26 (3-4)		1640										
TM-DP-28 (7-11)		1725										
TM-DP-29 (8-9)		1750										
TM-DP-30 (7-10)		1225										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/16/10 1905	Company: CH2MHILL	Received by:	Date/Time: 16APR10 1905	Company: TA
Relinquished by:	Date/Time: 16APR10 1945	Company: TA	Received by:	Date/Time: 4-17-10 1215	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.0c, 1.5c

Attachment 3
Analytical Data Report
(See Enclosed CD)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 640-27147-1

Job Description: Kennedy Generating Station - Arsenic

For:
CH2M Hill, Inc.
9428 Bay Meadows Road
Suite 300
Jacksonville, FL 32256

Attention: Dr. Walt Ogburn



Approved for release.
Tim Preston
Project Manager II
5/1/2010 4:56 PM

Tim Preston
Project Manager II
timothyr.preston@testamericainc.com
05/01/2010
Revision: 1

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

TestAmerica Tallahassee Florida Department of Health Certification No. E81005

Measurement uncertainty data, as referenced in Section 20.12 of the TestAmerica Tallahassee Quality Assurance Manual, are available upon request

Solid samples are reported on a dry weight basis unless otherwise qualified.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
640-27147-1	**TM-SB-25**				
Arsenic		3.2	1.0	mg/Kg	6010B
Percent Solids		91	0.00010	%	Moisture
640-27147-2	**TM-SB-26**				
Arsenic		2.6	1.1	mg/Kg	6010B
Percent Solids		83	0.00010	%	Moisture
640-27147-3	**TM-SB-27**				
Arsenic		3.0	1.1	mg/Kg	6010B
Percent Solids		84	0.00010	%	Moisture
640-27147-4	**TM-SB-28**				
Arsenic		2.3	1.1	mg/Kg	6010B
Percent Solids		87	0.00010	%	Moisture
640-27147-5	**TM-SB-29**				
Arsenic		4.4	1.2	mg/Kg	6010B
Percent Solids		80	0.00010	%	Moisture
640-27147-6	**TM-SB-30**				
Arsenic		6.7	1.1	mg/Kg	6010B
Percent Solids		88	0.00010	%	Moisture
640-27147-7	**TM-SB-31**				
Arsenic		3.3	1.1	mg/Kg	6010B
Percent Solids		90	0.00010	%	Moisture
640-27147-8	**TM-SB-32**				
Arsenic		2.0	0.97	mg/Kg	6010B
Percent Solids		93	0.00010	%	Moisture
640-27147-9	**TM-SB-33**				
Arsenic		1.5	0.96	mg/Kg	6010B
Percent Solids		96	0.00010	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
640-27147-10	**TM-SB-34**				
Arsenic		1.7	1.0	mg/Kg	6010B
Percent Solids		92	0.00010	%	Moisture
640-27147-11	**TM-SB-35**				
Arsenic		3.0	0.96	mg/Kg	6010B
Percent Solids		98	0.00010	%	Moisture

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL TAL	SW846 6010B	
Preparation, Metals	TAL TAL		SW846 3050B
Percent Moisture	TAL TAL	EPA Moisture	

Lab References:

TAL TAL = TestAmerica Tallahassee

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
640-27147-1	TM-SB-25	Solid	04/09/2010 0935	04/12/2010 1145
640-27147-2	TM-SB-26	Solid	04/09/2010 0950	04/12/2010 1145
640-27147-3	TM-SB-27	Solid	04/09/2010 1005	04/12/2010 1145
640-27147-4	TM-SB-28	Solid	04/09/2010 1025	04/12/2010 1145
640-27147-5	TM-SB-29	Solid	04/09/2010 1035	04/12/2010 1145
640-27147-6	TM-SB-30	Solid	04/09/2010 1045	04/12/2010 1145
640-27147-7	TM-SB-31	Solid	04/09/2010 1100	04/12/2010 1145
640-27147-8	TM-SB-32	Solid	04/09/2010 1110	04/12/2010 1145
640-27147-9	TM-SB-33	Solid	04/09/2010 1120	04/12/2010 1145
640-27147-10	TM-SB-34	Solid	04/09/2010 1125	04/12/2010 1145
640-27147-11	TM-SB-35	Solid	04/09/2010 1135	04/12/2010 1145

SAMPLE RESULTS

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-25**

Lab Sample ID: 640-27147-1 Date Sampled: 04/09/2010 0935
Client Matrix: Solid % Moisture: 9.1 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.533 g
Date Analyzed:	04/14/2010 1314			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		3.2		0.23	1.0

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-26**

Lab Sample ID: 640-27147-2 Date Sampled: 04/09/2010 0950
Client Matrix: Solid % Moisture: 17.1 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.550 g
Date Analyzed:	04/14/2010 1315			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		2.6		0.24	1.1

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-27**

Lab Sample ID: 640-27147-3 Date Sampled: 04/09/2010 1005
Client Matrix: Solid % Moisture: 16.3 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.540 g
Date Analyzed:	04/14/2010 1317			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		3.0		0.24	1.1

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-28**

Lab Sample ID: 640-27147-4 Date Sampled: 04/09/2010 1025
Client Matrix: Solid % Moisture: 12.9 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.523 g
Date Analyzed:	04/14/2010 1319			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		2.3		0.24	1.1

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-29**

Lab Sample ID: 640-27147-5 Date Sampled: 04/09/2010 1035
Client Matrix: Solid % Moisture: 20.3 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.533 g
Date Analyzed:	04/14/2010 1320			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		4.4		0.26	1.2

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-30**

Lab Sample ID: 640-27147-6 Date Sampled: 04/09/2010 1045
Client Matrix: Solid % Moisture: 12.2 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.516 g
Date Analyzed:	04/14/2010 1328			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		6.7		0.24	1.1

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-31**

Lab Sample ID: 640-27147-7 Date Sampled: 04/09/2010 1100
Client Matrix: Solid % Moisture: 10.0 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.528 g
Date Analyzed:	04/14/2010 1329			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		3.3		0.23	1.1

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-32**

Lab Sample ID: 640-27147-8 Date Sampled: 04/09/2010 1110
Client Matrix: Solid % Moisture: 7.2 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.556 g
Date Analyzed:	04/14/2010 1350			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		2.0		0.21	0.97

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-33**

Lab Sample ID: 640-27147-9 Date Sampled: 04/09/2010 1120
Client Matrix: Solid % Moisture: 3.8 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.539 g
Date Analyzed:	04/14/2010 1352			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		1.5		0.21	0.96

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-34**

Lab Sample ID: 640-27147-10 Date Sampled: 04/09/2010 1125
Client Matrix: Solid % Moisture: 8.2 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.529 g
Date Analyzed:	04/14/2010 1354			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		1.7		0.23	1.0

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Client Sample ID: **TM-SB-35**

Lab Sample ID: 640-27147-11 Date Sampled: 04/09/2010 1135
Client Matrix: Solid % Moisture: 2.4 Date Received: 04/12/2010 1145

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 640-67681		Instrument ID:	ICP1
Preparation:	3050B	Prep Batch: 640-67573		Lab File ID:	APRIL10
Dilution:	1.0			Initial Weight/Volume:	0.536 g
Date Analyzed:	04/14/2010 1355			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	PQL
Arsenic		3.0		0.21	0.96

General Chemistry

Client Sample ID: **TM-SB-25**

Lab Sample ID: 640-27147-1 Date Sampled: 04/09/2010 0935

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	91		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-26**

Lab Sample ID: 640-27147-2 Date Sampled: 04/09/2010 0950

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	83		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-27**

Lab Sample ID: 640-27147-3 Date Sampled: 04/09/2010 1005

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	84		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-28**

Lab Sample ID: 640-27147-4 Date Sampled: 04/09/2010 1025

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	87		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-29**

Lab Sample ID: 640-27147-5 Date Sampled: 04/09/2010 1035

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	80		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-30**

Lab Sample ID: 640-27147-6 Date Sampled: 04/09/2010 1045

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	88		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-31**

Lab Sample ID: 640-27147-7 Date Sampled: 04/09/2010 1100

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	90		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-32**

Lab Sample ID: 640-27147-8 Date Sampled: 04/09/2010 1110

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	93		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-33**

Lab Sample ID: 640-27147-9 Date Sampled: 04/09/2010 1120

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	96		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-34**

Lab Sample ID: 640-27147-10 Date Sampled: 04/09/2010 1125

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	92		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

General Chemistry

Client Sample ID: **TM-SB-35**

Lab Sample ID: 640-27147-11 Date Sampled: 04/09/2010 1135

Client Matrix: Solid Date Received: 04/12/2010 1145

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Percent Solids	98		%	0.00010	0.00010	1.0	Moisture

Analysis Batch: 640-67621 Date Analyzed (Start): 04/12/2010 1600 (End) 04/13/2010 1200 DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: CH2M Hill, Inc.

Job Number: 640-27147-1

Method Blank - Batch: 640-67573

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 640-67573/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/14/2010 1305
Date Prepared: 04/12/2010 1530

Analysis Batch: 640-67681
Prep Batch: 640-67573
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.567 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Arsenic	0.19	U	0.19	0.88

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-67573

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 640-67573/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/14/2010 1308
Date Prepared: 04/12/2010 1530

Analysis Batch: 640-67681
Prep Batch: 640-67573
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.562 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 640-67573/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 04/14/2010 1310
Date Prepared: 04/12/2010 1530

Analysis Batch: 640-67681
Prep Batch: 640-67573
Units: mg/Kg

Instrument ID: ICP1
Lab File ID: APRIL10
Initial Weight/Volume: 0.560 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	101	101	80 - 120	0	20		

Client: CH2M Hill, Inc. Job Number: 640-27147-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-67573

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID:	LCS 640-67573/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 640-67573/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/14/2010 1308			Date Analyzed:	04/14/2010 1310
Date Prepared:	04/12/2010 1530			Date Prepared:	04/12/2010 1530

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Arsenic	178	179	181	180

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-67573

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	640-27147-A-18-C MS	Analysis Batch: 640-67681	Instrument ID: ICP1
Client Matrix:	Solid	Prep Batch: 640-67573	Lab File ID: APRIL10
Dilution:	1.0		Initial Weight/Volume: 0.544 g
Date Analyzed:	04/14/2010 1426		Final Weight/Volume: 50 mL
Date Prepared:	04/12/2010 1530		

MSD Lab Sample ID:	640-27147-A-18-D MSD	Analysis Batch: 640-67681	Instrument ID: ICP1
Client Matrix:	Solid	Prep Batch: 640-67573	Lab File ID: APRIL10
Dilution:	1.0		Initial Weight/Volume: 0.581 g
Date Analyzed:	04/14/2010 1427		Final Weight/Volume: 50 mL
Date Prepared:	04/12/2010 1530		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	99	99	75 - 125	7	20		

Client: CH2M Hill, Inc.

Job Number: 640-27147-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-67573

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	640-27147-A-18-C MS	Units: mg/Kg	MSD Lab Sample ID:	640-27147-A-18-D MSD	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	04/14/2010 1426		Date Analyzed:	04/14/2010 1427	
Date Prepared:	04/12/2010 1530		Date Prepared:	04/12/2010 1530	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	2.1	208	195	208	194

Duplicate - Batch: 640-67573

Method: 6010B
Preparation: 3050B

Lab Sample ID:	640-27147-A-18-B DU	Analysis Batch:	640-67681	Instrument ID:	ICP1
Client Matrix:	Solid	Prep Batch:	640-67573	Lab File ID:	APRIL10
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.545 g
Date Analyzed:	04/14/2010 1424			Final Weight/Volume:	50 mL
Date Prepared:	04/12/2010 1530				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	2.1	2.09	1	20	

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
Phone (850) 878-3994 Fax (850) 878-9504

1 of 2

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Erik Svenson / B. Ill Elliot	Lab PM:	Carrier Tracking No(s):	COC No: 640-
Client Contact: Walt Ogburn / Erik Svenson	Phone: 904-733-9119	E-Mail:		Page:
Company: CH2M HILL				Job #: 640-27147
Address: 9428 Baymeadows Rd Ste 300	Due Date Requested:			
City: Jacksonville	TAT Requested (days): Standard			
State, Zip: FL, 32256	PO #:			
Phone: 904-733-9119	WO#:			
Email:	Project #:			
Project Name: KGS Supplemental Investigation	SSOW#:			
Site: TransMontaigne / Oregon				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Arsenic SW846-6010B	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TM-SB-25	4/9/10	9:35	G	S			✓		
TM-SB-26		9:50					✓		
TM-SB-27		10:05					✓		
TM-SB-28		10:25					✓		
TM-SB-29		10:35					✓		
TM-SB-30		10:45					✓		
TM-SB-31		11:00					✓		
TM-SB-32		11:10					✓		
TM-SB-33		11:20					✓		
TM-SB-34		11:25					✓		
TM-SB-35		11:35					✓		

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 4/7/10 15:45	Company	Received by:	Date/Time: 09APR10 1545	Company TA
Relinquished by:	Date/Time: 09APR10 1704	Company TA	Received by:	Date/Time: 4-10-10 1145	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3°, 1.4°, 5.0°

TAL-8240TA 0108

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 640-27414-1

Job Description: JEA - TransMontaigne

For:
CH2M Hill, Inc.
9428 Bay Meadows Road
Suite 300
Jacksonville, FL 32256

Attention: Dr. Walt Ogburn

Approved for release.
Amy Marks
Project Manager II
6/2/2010 11:20 AM

Designee for
Tim Preston
Project Manager II
timothyr.preston@testamericainc.com
06/02/2010

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

TestAmerica Tallahassee Florida Department of Health Certification No. E81005

Measurement uncertainty data, as referenced in Section 20.12 of the TestAmerica Tallahassee Quality Assurance Manual, are available upon request

Solid samples are reported on a dry weight basis unless otherwise qualified.

Job Narrative
640-27414-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260C: The method blank for batch 640-68361 contained Tetrachloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed. Associated sample detections are qualified with a "V".

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 640-68361 were outside control limits for 4-Methyl-2-pentanone (MIBK). Associated results are qualified "J3". The batch matrix spike (MS) and matrix spike duplicate (MSD) performed on sample TM-GP-26-B (640-27414-11) were outside control limits for Ethylbenzene, 1,2-Dibromo-3-chloropropane and 1,2,4-Trichlorobenzene. All of these recoveries were biased high and are flagged "J3". All batch acceptance criteria were met; therefore, no further action was taken.

Method 8260C: The LCS and LCSD in batch 640-68383 recovered outside control limits for 4-Methyl-2-pentanone (MIBK). Precision of the LCS/LCSD was outside control limits for 1,2,4-Trichlorobenzene. Associated sample results are qualified "J3". All batch acceptance criteria were met; therefore, no further action was taken.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C LL: Due to the level of dilution required for the following samples, the surrogate could not be recovered: TM-GP-26-B (640-27414-11), TM-GP-27-B (640-27414-13), TM-GP-26-B MS (640-27414-11 MS), TM-GP-26-B MSD (640-27414-11MSD). The 0% surrogate recoveries are flagged "J1".

Method 8270C LL: Due to the level of dilution required on the parent sample, the matrix spike (MS) and matrix spike duplicate (MSD) performed on sample TM-GP-26-B (640-27414-11) in batch 640-68191 were outside control limits for all analytes. The associated LCS/LCSD met all acceptance criteria for precision and accuracy.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27414-2FD	**FD-1**					
Acetone		20	I	25	ug/L	8260C
Carbon disulfide		0.19	I	1.0	ug/L	8260C
Methyl tert-butyl ether		0.68	I	1.0	ug/L	8260C
1-Methylnaphthalene		2.4		1.9	ug/L	8270C LL
2-Methylnaphthalene		1.5	I	1.9	ug/L	8270C LL
Acenaphthene		85		1.9	ug/L	8270C LL
Acenaphthylene		0.56	I	1.9	ug/L	8270C LL
Anthracene		2.7		1.9	ug/L	8270C LL
Benzo[a]anthracene		0.56	I	1.9	ug/L	8270C LL
Chrysene		0.46	I	1.9	ug/L	8270C LL
Fluoranthene		6.4		1.9	ug/L	8270C LL
Fluorene		30		1.9	ug/L	8270C LL
Phenanthrene		14		1.9	ug/L	8270C LL
Pyrene		4.7		1.9	ug/L	8270C LL
640-27414-3	**TM-GP-30-B**					
Acetone		15	I	25	ug/L	8260C
Carbon disulfide		0.20	I	1.0	ug/L	8260C
Methyl tert-butyl ether		0.53	I	1.0	ug/L	8260C
1-Methylnaphthalene		2.4		1.9	ug/L	8270C LL
2-Methylnaphthalene		1.6	I	1.9	ug/L	8270C LL
Acenaphthene		89		1.9	ug/L	8270C LL
Acenaphthylene		0.67	I	1.9	ug/L	8270C LL
Anthracene		4.2		1.9	ug/L	8270C LL
Benzo[a]anthracene		1.0	I	1.9	ug/L	8270C LL
Chrysene		0.80	I	1.9	ug/L	8270C LL
Fluoranthene		11		1.9	ug/L	8270C LL
Fluorene		32		1.9	ug/L	8270C LL
Phenanthrene		23		1.9	ug/L	8270C LL
Pyrene		7.3		1.9	ug/L	8270C LL

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27414-4	**TM-GP-29-B**					
Acetone		17	I	25	ug/L	8260C
Methyl tert-butyl ether		0.82	I	1.0	ug/L	8260C
1-Methylnaphthalene		1.7	I	1.9	ug/L	8270C LL
2-Methylnaphthalene		1.5	I	1.9	ug/L	8270C LL
Acenaphthene		45		1.9	ug/L	8270C LL
Acenaphthylene		0.30	I	1.9	ug/L	8270C LL
Anthracene		1.6	I	1.9	ug/L	8270C LL
Fluoranthene		1.8	I	1.9	ug/L	8270C LL
Fluorene		28		1.9	ug/L	8270C LL
Naphthalene		1.3	I	1.9	ug/L	8270C LL
Phenanthrene		3.3		1.9	ug/L	8270C LL
Pyrene		1.0	I	1.9	ug/L	8270C LL
640-27414-5	**TM-GP-29-A**					
Vinyl chloride		6.3		1.0	ug/L	8260C
1-Methylnaphthalene		0.20		0.19	ug/L	8270C LL
2-Methylnaphthalene		0.24		0.19	ug/L	8270C LL
Acenaphthene		5.6		0.19	ug/L	8270C LL
Anthracene		0.097	I	0.19	ug/L	8270C LL
Fluoranthene		0.14	I	0.19	ug/L	8270C LL
Fluorene		1.7		0.19	ug/L	8270C LL
Naphthalene		0.45		0.19	ug/L	8270C LL
Phenanthrene		1.1		0.19	ug/L	8270C LL
Pyrene		0.10	I	0.19	ug/L	8270C LL
640-27414-6	**TM-GP-30-A**					
Vinyl chloride		0.56	I	1.0	ug/L	8260C
Carbon disulfide		0.38	I	1.0	ug/L	8260C
Methyl tert-butyl ether		0.38	I	1.0	ug/L	8260C
cis-1,2-Dichloroethene		0.27	I	1.0	ug/L	8260C
Tetrachloroethene		0.20	I V	1.0	ug/L	8260C
1-Methylnaphthalene		31		1.9	ug/L	8270C LL
2-Methylnaphthalene		3.0		1.9	ug/L	8270C LL
Acenaphthene		82		1.9	ug/L	8270C LL
Anthracene		1.5	I	1.9	ug/L	8270C LL
Fluoranthene		0.47	I	1.9	ug/L	8270C LL
Fluorene		32		1.9	ug/L	8270C LL
Naphthalene		0.24	I	1.9	ug/L	8270C LL
Phenanthrene		19		1.9	ug/L	8270C LL

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27414-7	**TM-GP-28-A**					
Vinyl chloride		1.3		1.0	ug/L	8260C
Acetone		8.8	I	25	ug/L	8260C
Carbon disulfide		0.21	I	1.0	ug/L	8260C
Methyl tert-butyl ether		0.22	I	1.0	ug/L	8260C
1-Methylnaphthalene		8.0		0.19	ug/L	8270C LL
2-Methylnaphthalene		0.22		0.19	ug/L	8270C LL
Acenaphthene		18		0.19	ug/L	8270C LL
Anthracene		0.17	I	0.19	ug/L	8270C LL
Fluoranthene		0.12	I	0.19	ug/L	8270C LL
Fluorene		7.8		0.19	ug/L	8270C LL
Naphthalene		0.093	I	0.19	ug/L	8270C LL
Phenanthrene		0.34		0.19	ug/L	8270C LL
Pyrene		0.094	I	0.19	ug/L	8270C LL
640-27414-8	**TM-GP-28-B**					
Trichloroethene		0.90	I	1.0	ug/L	8260C
1-Methylnaphthalene		4.0		0.94	ug/L	8270C LL
2-Methylnaphthalene		7.1		0.94	ug/L	8270C LL
Acenaphthene		37		0.94	ug/L	8270C LL
Acenaphthylene		0.26	I	0.94	ug/L	8270C LL
Anthracene		3.1		0.94	ug/L	8270C LL
Benzo[a]anthracene		0.74	I	0.94	ug/L	8270C LL
Chrysene		0.59	I	0.94	ug/L	8270C LL
Fluoranthene		8.4		0.94	ug/L	8270C LL
Fluorene		10		0.94	ug/L	8270C LL
Phenanthrene		27		0.94	ug/L	8270C LL
Pyrene		6.0		0.94	ug/L	8270C LL
640-27414-9	**TM-GP-25-B**					
Carbon disulfide		0.19	I	1.0	ug/L	8260C
1-Methylnaphthalene		1.8		0.75	ug/L	8270C LL
2-Methylnaphthalene		0.47	I	0.75	ug/L	8270C LL
Acenaphthene		22		0.75	ug/L	8270C LL
Fluorene		0.95		0.75	ug/L	8270C LL
Naphthalene		0.51	I	0.75	ug/L	8270C LL
Phenanthrene		0.35	I	0.75	ug/L	8270C LL

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27414-10	**TM-GP-26-A**					
Acetone		10	I	25	ug/L	8260C
Carbon disulfide		0.26	I	1.0	ug/L	8260C
Methyl tert-butyl ether		0.29	I	1.0	ug/L	8260C
1-Methylnaphthalene		1.7		0.19	ug/L	8270C LL
2-Methylnaphthalene		0.33		0.19	ug/L	8270C LL
Acenaphthene		5.2		0.19	ug/L	8270C LL
Anthracene		0.22		0.19	ug/L	8270C LL
Fluoranthene		0.085	I	0.19	ug/L	8270C LL
Fluorene		0.52		0.19	ug/L	8270C LL
Phenanthrene		0.21		0.19	ug/L	8270C LL
Pyrene		0.060	I	0.19	ug/L	8270C LL
640-27414-11	**TM-GP-26-B**					
Carbon disulfide		0.86	I	1.0	ug/L	8260C
Benzene		17		1.0	ug/L	8260C
Toluene		0.75	I	1.0	ug/L	8260C
Ethylbenzene		9.1		1.0	ug/L	8260C
m-Xylene & p-Xylene		2.9		2.0	ug/L	8260C
o-Xylene		1.2		1.0	ug/L	8260C
Isopropylbenzene		1.2		1.0	ug/L	8260C
Xylenes, Total		4.0		2.0	ug/L	8260C
1-Methylnaphthalene		180		8.0	ug/L	8270C LL
Acenaphthene		330		8.0	ug/L	8270C LL
Acenaphthylene		3.0	I	8.0	ug/L	8270C LL
Anthracene		4.1	I	8.0	ug/L	8270C LL
Fluorene		86		8.0	ug/L	8270C LL
Naphthalene		190		8.0	ug/L	8270C LL
Phenanthrene		3.9	I	8.0	ug/L	8270C LL
640-27414-12	**TM-GP-27-A**					
Carbon disulfide		0.35	I	1.0	ug/L	8260C
Benzene		0.46	I	1.0	ug/L	8260C
m-Xylene & p-Xylene		0.61	I	2.0	ug/L	8260C
Isopropylbenzene		0.28	I	1.0	ug/L	8260C
Xylenes, Total		0.72	I	2.0	ug/L	8260C
1-Methylnaphthalene		3.9		0.19	ug/L	8270C LL
2-Methylnaphthalene		0.56		0.19	ug/L	8270C LL
Acenaphthene		5.1		0.19	ug/L	8270C LL
Anthracene		0.31		0.19	ug/L	8270C LL
Fluorene		0.90		0.19	ug/L	8270C LL
Naphthalene		0.15	I	0.19	ug/L	8270C LL

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
640-27414-13	**TM-GP-27-B**					
Carbon disulfide		0.43	I	1.0	ug/L	8260C
1,1-Dichloroethane		0.39	I	1.0	ug/L	8260C
Benzene		22		1.0	ug/L	8260C
Toluene		0.91	I	1.0	ug/L	8260C
Ethylbenzene		1.0		1.0	ug/L	8260C
m-Xylene & p-Xylene		1.7	I	2.0	ug/L	8260C
o-Xylene		0.79	I	1.0	ug/L	8260C
Isopropylbenzene		0.61	I	1.0	ug/L	8260C
Xylenes, Total		2.5		2.0	ug/L	8260C
1-Methylnaphthalene		110		9.4	ug/L	8270C LL
Acenaphthene		230		9.4	ug/L	8270C LL
Fluorene		62		9.4	ug/L	8270C LL
Naphthalene		13		9.4	ug/L	8270C LL

METHOD SUMMARY

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL TAL	SW846 8260C	
Purge and Trap	TAL TAL		SW846 5030C
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAL	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAL		SW846 3520C

Lab References:

TAL TAL = TestAmerica Tallahassee

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
640-27414-1EB	EB-1	Water	04/22/2010 1800	04/24/2010 1200
640-27414-2FD	FD-1	Water	04/22/2010 0000	04/24/2010 1200
640-27414-3	TM-GP-30-B	Water	04/22/2010 1100	04/24/2010 1200
640-27414-4	TM-GP-29-B	Water	04/22/2010 1140	04/24/2010 1200
640-27414-5	TM-GP-29-A	Water	04/22/2010 1015	04/24/2010 1200
640-27414-6	TM-GP-30-A	Water	04/22/2010 1005	04/24/2010 1200
640-27414-7	TM-GP-28-A	Water	04/22/2010 1225	04/24/2010 1200
640-27414-8	TM-GP-28-B	Water	04/22/2010 1330	04/24/2010 1200
640-27414-9	TM-GP-25-B	Water	04/22/2010 1540	04/24/2010 1200
640-27414-10	TM-GP-26-A	Water	04/22/2010 1545	04/24/2010 1200
640-27414-11	TM-GP-26-B	Water	04/22/2010 1705	04/24/2010 1200
640-27414-11MS	TM-GP-26-BMS	Water	04/22/2010 1705	04/24/2010 1200
640-27414-11MSD	TM-GP-26-BMSD	Water	04/22/2010 1705	04/24/2010 1200
640-27414-12	TM-GP-27-A	Water	04/22/2010 1745	04/24/2010 1200
640-27414-13	TM-GP-27-B	Water	04/22/2010 1840	04/24/2010 1200

SAMPLE RESULTS

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **EB-1**

Lab Sample ID: 640-27414-1EB Date Sampled: 04/22/2010 1800
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042920.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 1858 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 1858

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **EB-1**

Lab Sample ID: 640-27414-1EB Date Sampled: 04/22/2010 1800
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361	Instrument ID: VMG
Preparation:	5030C		Lab File ID: 2G042920.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	04/29/2010 1858		Final Weight/Volume: 40 mL
Date Prepared:	04/29/2010 1858		

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	101		83 - 123
Toluene-d8 (Surr)	97		78 - 126
4-Bromofluorobenzene	73		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **FD-1**

Lab Sample ID: 640-27414-2FD Date Sampled: 04/22/2010 0000
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042921.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 1924 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 1924

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	20	I	3.0	25
Carbon disulfide	0.19	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.68	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **FD-1**

Lab Sample ID: 640-27414-2FD Date Sampled: 04/22/2010 0000
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042921.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1924			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1924				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	100		78 - 126
4-Bromofluorobenzene	75		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-B**

Lab Sample ID: 640-27414-3 Date Sampled: 04/22/2010 1100
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042922.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 1950 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 1950

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	15	I	3.0	25
Carbon disulfide	0.20	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.53	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-B**

Lab Sample ID: 640-27414-3 Date Sampled: 04/22/2010 1100
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042922.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1950			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1950				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	107		83 - 123
Toluene-d8 (Surr)	97		78 - 126
4-Bromofluorobenzene	80		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-B**

Lab Sample ID: 640-27414-4 Date Sampled: 04/22/2010 1140
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042923.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2016 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2016

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	17	I	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.82	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-B**

Lab Sample ID: 640-27414-4 Date Sampled: 04/22/2010 1140
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042923.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2016			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2016				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	103		83 - 123
Toluene-d8 (Surr)	97		78 - 126
4-Bromofluorobenzene	80		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-A**

Lab Sample ID: 640-27414-5 Date Sampled: 04/22/2010 1015
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042924.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2042 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2042

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	6.3		0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-A**

Lab Sample ID: 640-27414-5 Date Sampled: 04/22/2010 1015
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042924.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2042			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2042				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	104		83 - 123
Toluene-d8 (Surr)	99		78 - 126
4-Bromofluorobenzene	75		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-A**

Lab Sample ID: 640-27414-6 Date Sampled: 04/22/2010 1005
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042925.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2108 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2108

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.56	I	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.38	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.38	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.27	I	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	I V	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-A**

Lab Sample ID: 640-27414-6 Date Sampled: 04/22/2010 1005
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042925.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2108			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2108				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	100		78 - 126
4-Bromofluorobenzene	75		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-A**

Lab Sample ID: 640-27414-7 Date Sampled: 04/22/2010 1225
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042926.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2134 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2134

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	1.3		0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	8.8	I	3.0	25
Carbon disulfide	0.21	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.22	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-A**

Lab Sample ID: 640-27414-7 Date Sampled: 04/22/2010 1225
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042926.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2134			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2134				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	103		83 - 123
Toluene-d8 (Surr)	97		78 - 126
4-Bromofluorobenzene	72		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-B**

Lab Sample ID: 640-27414-8 Date Sampled: 04/22/2010 1330
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042927.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2200 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2200

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.90	I	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-B**

Lab Sample ID: 640-27414-8 Date Sampled: 04/22/2010 1330
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042927.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2200			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2200				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	95		78 - 126
4-Bromofluorobenzene	77		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-25-B**

Lab Sample ID: 640-27414-9 Date Sampled: 04/22/2010 1540
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68361 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G042928.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/29/2010 2226 Final Weight/Volume: 40 mL
Date Prepared: 04/29/2010 2226

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.19	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-25-B**

Lab Sample ID: 640-27414-9 Date Sampled: 04/22/2010 1540
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68361		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G042928.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 2226			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 2226				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	97		78 - 126
4-Bromofluorobenzene	82		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-A**

Lab Sample ID: 640-27414-10 Date Sampled: 04/22/2010 1545
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68383 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G043025.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/30/2010 2257 Final Weight/Volume: 40 mL
Date Prepared: 04/30/2010 2257

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	10	I	3.0	25
Carbon disulfide	0.26	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.29	I	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-A**

Lab Sample ID: 640-27414-10 Date Sampled: 04/22/2010 1545
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G043025.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 2257			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 2257				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U J3	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	101		83 - 123
Toluene-d8 (Surr)	96		78 - 126
4-Bromofluorobenzene	77		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-B**

Lab Sample ID: 640-27414-11 Date Sampled: 04/22/2010 1705
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method: 8260C Analysis Batch: 640-68383 Instrument ID: VMG
Preparation: 5030C Lab File ID: 2G043026.D
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/30/2010 2323 Final Weight/Volume: 40 mL
Date Prepared: 04/30/2010 2323

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.86	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	17		0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.75	I	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	9.1		0.25	1.0
m-Xylene & p-Xylene	2.9		0.45	2.0
o-Xylene	1.2		0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	1.2		0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-B**

Lab Sample ID: 640-27414-11 Date Sampled: 04/22/2010 1705
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G043026.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 2323			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 2323				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U J3	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	4.0		0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	102		83 - 123
Toluene-d8 (Surr)	94		78 - 126
4-Bromofluorobenzene	94		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-A**

Lab Sample ID: 640-27414-12 Date Sampled: 04/22/2010 1745
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G043027.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 2349			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 2349				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.35	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.46	I	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.61	I	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.28	I	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-A**

Lab Sample ID: 640-27414-12 Date Sampled: 04/22/2010 1745
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383		Instrument ID:	VMG
Preparation:	5030C			Lab File ID:	2G043027.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 2349			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 2349				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U J3	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.72	I	0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	101		83 - 123
Toluene-d8 (Surr)	95		78 - 126
4-Bromofluorobenzene	84		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-B**

Lab Sample ID: 640-27414-13 Date Sampled: 04/22/2010 1840
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383	Instrument ID:	VMG	
Preparation:	5030C		Lab File ID:	2G043028.D	
Dilution:	1.0		Initial Weight/Volume:	40	mL
Date Analyzed:	05/01/2010 0015		Final Weight/Volume:	40	mL
Date Prepared:	05/01/2010 0015				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.43	I	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.39	I	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	22		0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U J3	2.2	10
Toluene	0.91	I	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	1.0		0.25	1.0
m-Xylene & p-Xylene	1.7	I	0.45	2.0
o-Xylene	0.79	I	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.61	I	0.24	1.0
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-B**

Lab Sample ID: 640-27414-13 Date Sampled: 04/22/2010 1840
Client Matrix: Water Date Received: 04/24/2010 1200

8260C Volatile Organic Compounds by GC/MS

Method:	8260C	Analysis Batch: 640-68383	Instrument ID:	VMG	
Preparation:	5030C		Lab File ID:	2G043028.D	
Dilution:	1.0		Initial Weight/Volume:	40	mL
Date Analyzed:	05/01/2010 0015		Final Weight/Volume:	40	mL
Date Prepared:	05/01/2010 0015				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U J3	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	2.5		0.68	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane	105		83 - 123
Toluene-d8 (Surr)	91		78 - 126
4-Bromofluorobenzene	87		70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **EB-1**

Lab Sample ID: 640-27414-1EB Date Sampled: 04/22/2010 1800
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68489		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050520.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/05/2010 1636			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	0.028	U	0.028	0.19
2-Methylnaphthalene	0.016	U	0.016	0.19
Acenaphthene	0.015	U	0.015	0.19
Acenaphthylene	0.0094	U	0.0094	0.19
Anthracene	0.011	U	0.011	0.19
Benzo[a]anthracene	0.018	U	0.018	0.19
Benzo[a]pyrene	0.016	U	0.016	0.19
Benzo[b]fluoranthene	0.023	U	0.023	0.19
Benzo[g,h,i]perylene	0.021	U	0.021	0.19
Benzo[k]fluoranthene	0.020	U	0.020	0.19
Chrysene	0.021	U	0.021	0.19
Dibenz(a,h)anthracene	0.014	U	0.014	0.19
Fluoranthene	0.022	U	0.022	0.19
Fluorene	0.017	U	0.017	0.19
Indeno[1,2,3-cd]pyrene	0.015	U	0.015	0.19
Naphthalene	0.015	U	0.015	0.19
Phenanthrene	0.018	U	0.018	0.19
Pyrene	0.027	U	0.027	0.19

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	74		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **FD-1**

Lab Sample ID: 640-27414-2FD Date Sampled: 04/22/2010 0000
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050617.D
Dilution:	10			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1545			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	2.4		0.28	1.9
2-Methylnaphthalene	1.5	I	0.16	1.9
Acenaphthene	85		0.15	1.9
Acenaphthylene	0.56	I	0.094	1.9
Anthracene	2.7		0.11	1.9
Benzo[a]anthracene	0.56	I	0.18	1.9
Benzo[a]pyrene	0.16	U	0.16	1.9
Benzo[b]fluoranthene	0.23	U	0.23	1.9
Benzo[g,h,i]perylene	0.21	U	0.21	1.9
Benzo[k]fluoranthene	0.20	U	0.20	1.9
Chrysene	0.46	I	0.21	1.9
Dibenz(a,h)anthracene	0.14	U	0.14	1.9
Fluoranthene	6.4		0.22	1.9
Fluorene	30		0.17	1.9
Indeno[1,2,3-cd]pyrene	0.15	U	0.15	1.9
Naphthalene	0.15	U	0.15	1.9
Phenanthrene	14		0.18	1.9
Pyrene	4.7		0.27	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-B**

Lab Sample ID: 640-27414-3 Date Sampled: 04/22/2010 1100
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050620.D
Dilution:	10			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1640			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	2.4		0.28	1.9
2-Methylnaphthalene	1.6	I	0.16	1.9
Acenaphthene	89		0.15	1.9
Acenaphthylene	0.67	I	0.094	1.9
Anthracene	4.2		0.11	1.9
Benzo[a]anthracene	1.0	I	0.18	1.9
Benzo[a]pyrene	0.16	U	0.16	1.9
Benzo[b]fluoranthene	0.23	U	0.23	1.9
Benzo[g,h,i]perylene	0.21	U	0.21	1.9
Benzo[k]fluoranthene	0.20	U	0.20	1.9
Chrysene	0.80	I	0.21	1.9
Dibenz(a,h)anthracene	0.14	U	0.14	1.9
Fluoranthene	11		0.22	1.9
Fluorene	32		0.17	1.9
Indeno[1,2,3-cd]pyrene	0.15	U	0.15	1.9
Naphthalene	0.15	U	0.15	1.9
Phenanthrene	23		0.18	1.9
Pyrene	7.3		0.27	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-B**

Lab Sample ID: 640-27414-4 Date Sampled: 04/22/2010 1140
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050622.D
Dilution:	10			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1718			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	1.7	I	0.28	1.9
2-Methylnaphthalene	1.5	I	0.16	1.9
Acenaphthene	45		0.15	1.9
Acenaphthylene	0.30	I	0.094	1.9
Anthracene	1.6	I	0.11	1.9
Benzo[a]anthracene	0.18	U	0.18	1.9
Benzo[a]pyrene	0.16	U	0.16	1.9
Benzo[b]fluoranthene	0.23	U	0.23	1.9
Benzo[g,h,i]perylene	0.21	U	0.21	1.9
Benzo[k]fluoranthene	0.20	U	0.20	1.9
Chrysene	0.21	U	0.21	1.9
Dibenz(a,h)anthracene	0.14	U	0.14	1.9
Fluoranthene	1.8	I	0.22	1.9
Fluorene	28		0.17	1.9
Indeno[1,2,3-cd]pyrene	0.15	U	0.15	1.9
Naphthalene	1.3	I	0.15	1.9
Phenanthrene	3.3		0.18	1.9
Pyrene	1.0	I	0.27	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	74		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-29-A**

Lab Sample ID: 640-27414-5 Date Sampled: 04/22/2010 1015
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68489		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050524.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/05/2010 1752			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	0.20		0.028	0.19
2-Methylnaphthalene	0.24		0.016	0.19
Acenaphthene	5.6		0.015	0.19
Acenaphthylene	0.0094	U	0.0094	0.19
Anthracene	0.097	I	0.011	0.19
Benzo[a]anthracene	0.018	U	0.018	0.19
Benzo[a]pyrene	0.016	U	0.016	0.19
Benzo[b]fluoranthene	0.023	U	0.023	0.19
Benzo[g,h,i]perylene	0.021	U	0.021	0.19
Benzo[k]fluoranthene	0.020	U	0.020	0.19
Chrysene	0.021	U	0.021	0.19
Dibenz(a,h)anthracene	0.014	U	0.014	0.19
Fluoranthene	0.14	I	0.022	0.19
Fluorene	1.7		0.017	0.19
Indeno[1,2,3-cd]pyrene	0.015	U	0.015	0.19
Naphthalene	0.45		0.015	0.19
Phenanthrene	1.1		0.018	0.19
Pyrene	0.10	I	0.027	0.19

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-30-A**

Lab Sample ID: 640-27414-6 Date Sampled: 04/22/2010 1005
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050623.D
Dilution:	10			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1736			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	31		0.28	1.9
2-Methylnaphthalene	3.0		0.16	1.9
Acenaphthene	82		0.15	1.9
Acenaphthylene	0.094	U	0.094	1.9
Anthracene	1.5	I	0.11	1.9
Benzo[a]anthracene	0.18	U	0.18	1.9
Benzo[a]pyrene	0.16	U	0.16	1.9
Benzo[b]fluoranthene	0.23	U	0.23	1.9
Benzo[g,h,i]perylene	0.21	U	0.21	1.9
Benzo[k]fluoranthene	0.20	U	0.20	1.9
Chrysene	0.21	U	0.21	1.9
Dibenz(a,h)anthracene	0.14	U	0.14	1.9
Fluoranthene	0.47	I	0.22	1.9
Fluorene	32		0.17	1.9
Indeno[1,2,3-cd]pyrene	0.15	U	0.15	1.9
Naphthalene	0.24	I	0.15	1.9
Phenanthrene	19		0.18	1.9
Pyrene	0.27	U	0.27	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	75		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-A**

Lab Sample ID: 640-27414-7 Date Sampled: 04/22/2010 1225
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68489		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050526.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/05/2010 1829			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	8.0		0.028	0.19
2-Methylnaphthalene	0.22		0.016	0.19
Acenaphthene	18		0.015	0.19
Acenaphthylene	0.0094	U	0.0094	0.19
Anthracene	0.17	I	0.011	0.19
Benzo[a]anthracene	0.018	U	0.018	0.19
Benzo[a]pyrene	0.016	U	0.016	0.19
Benzo[b]fluoranthene	0.023	U	0.023	0.19
Benzo[g,h,i]perylene	0.021	U	0.021	0.19
Benzo[k]fluoranthene	0.020	U	0.020	0.19
Chrysene	0.021	U	0.021	0.19
Dibenz(a,h)anthracene	0.014	U	0.014	0.19
Fluoranthene	0.12	I	0.022	0.19
Fluorene	7.8		0.017	0.19
Indeno[1,2,3-cd]pyrene	0.015	U	0.015	0.19
Naphthalene	0.093	I	0.015	0.19
Phenanthrene	0.34		0.018	0.19
Pyrene	0.094	I	0.027	0.19

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	67		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-28-B**

Lab Sample ID: 640-27414-8 Date Sampled: 04/22/2010 1330
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050624.D
Dilution:	5.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1754			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	4.0		0.14	0.94
2-Methylnaphthalene	7.1		0.080	0.94
Acenaphthene	37		0.075	0.94
Acenaphthylene	0.26	I	0.047	0.94
Anthracene	3.1		0.057	0.94
Benzo[a]anthracene	0.74	I	0.090	0.94
Benzo[a]pyrene	0.080	U	0.080	0.94
Benzo[b]fluoranthene	0.11	U	0.11	0.94
Benzo[g,h,i]perylene	0.10	U	0.10	0.94
Benzo[k]fluoranthene	0.099	U	0.099	0.94
Chrysene	0.59	I	0.10	0.94
Dibenz(a,h)anthracene	0.071	U	0.071	0.94
Fluoranthene	8.4		0.11	0.94
Fluorene	10		0.085	0.94
Indeno[1,2,3-cd]pyrene	0.075	U	0.075	0.94
Naphthalene	0.075	U	0.075	0.94
Phenanthrene	27		0.090	0.94
Pyrene	6.0		0.14	0.94

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-25-B**

Lab Sample ID: 640-27414-9 Date Sampled: 04/22/2010 1540
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050625.D
Dilution:	4.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1812			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	1.8		0.11	0.75
2-Methylnaphthalene	0.47	I	0.064	0.75
Acenaphthene	22		0.060	0.75
Acenaphthylene	0.038	U	0.038	0.75
Anthracene	0.045	U	0.045	0.75
Benzo[a]anthracene	0.072	U	0.072	0.75
Benzo[a]pyrene	0.064	U	0.064	0.75
Benzo[b]fluoranthene	0.091	U	0.091	0.75
Benzo[g,h,i]perylene	0.083	U	0.083	0.75
Benzo[k]fluoranthene	0.079	U	0.079	0.75
Chrysene	0.083	U	0.083	0.75
Dibenz(a,h)anthracene	0.057	U	0.057	0.75
Fluoranthene	0.087	U	0.087	0.75
Fluorene	0.95		0.068	0.75
Indeno[1,2,3-cd]pyrene	0.060	U	0.060	0.75
Naphthalene	0.51	I	0.060	0.75
Phenanthrene	0.35	I	0.072	0.75
Pyrene	0.11	U	0.11	0.75

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	81		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-A**

Lab Sample ID: 640-27414-10 Date Sampled: 04/22/2010 1545
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68489		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050529.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/05/2010 1927			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	1.7		0.028	0.19
2-Methylnaphthalene	0.33		0.016	0.19
Acenaphthene	5.2		0.015	0.19
Acenaphthylene	0.0094	U	0.0094	0.19
Anthracene	0.22		0.011	0.19
Benzo[a]anthracene	0.018	U	0.018	0.19
Benzo[a]pyrene	0.016	U	0.016	0.19
Benzo[b]fluoranthene	0.023	U	0.023	0.19
Benzo[g,h,i]perylene	0.021	U	0.021	0.19
Benzo[k]fluoranthene	0.020	U	0.020	0.19
Chrysene	0.021	U	0.021	0.19
Dibenz(a,h)anthracene	0.014	U	0.014	0.19
Fluoranthene	0.085	I	0.022	0.19
Fluorene	0.52		0.017	0.19
Indeno[1,2,3-cd]pyrene	0.015	U	0.015	0.19
Naphthalene	0.015	U	0.015	0.19
Phenanthrene	0.21		0.018	0.19
Pyrene	0.060	I	0.027	0.19

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	72		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-26-B**

Lab Sample ID: 640-27414-11 Date Sampled: 04/22/2010 1705
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050621.D
Dilution:	40			Initial Weight/Volume:	1000 mL
Date Analyzed:	05/06/2010 1700			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	180		1.2	8.0
2-Methylnaphthalene	0.68	U	0.68	8.0
Acenaphthene	330		0.64	8.0
Acenaphthylene	3.0	I	0.40	8.0
Anthracene	4.1	I	0.48	8.0
Benzo[a]anthracene	0.76	U	0.76	8.0
Benzo[a]pyrene	0.68	U	0.68	8.0
Benzo[b]fluoranthene	0.96	U	0.96	8.0
Benzo[g,h,i]perylene	0.88	U	0.88	8.0
Benzo[k]fluoranthene	0.84	U	0.84	8.0
Chrysene	0.88	U	0.88	8.0
Dibenz(a,h)anthracene	0.60	U	0.60	8.0
Fluoranthene	0.92	U	0.92	8.0
Fluorene	86		0.72	8.0
Indeno[1,2,3-cd]pyrene	0.64	U	0.64	8.0
Naphthalene	190		0.64	8.0
Phenanthrene	3.9	I	0.76	8.0
Pyrene	1.2	U	1.2	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	J1	37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-A**

Lab Sample ID: 640-27414-12 Date Sampled: 04/22/2010 1745
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68489		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050530.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/05/2010 1945			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	3.9		0.028	0.19
2-Methylnaphthalene	0.56		0.016	0.19
Acenaphthene	5.1		0.015	0.19
Acenaphthylene	0.0094	U	0.0094	0.19
Anthracene	0.31		0.011	0.19
Benzo[a]anthracene	0.018	U	0.018	0.19
Benzo[a]pyrene	0.016	U	0.016	0.19
Benzo[b]fluoranthene	0.023	U	0.023	0.19
Benzo[g,h,i]perylene	0.021	U	0.021	0.19
Benzo[k]fluoranthene	0.020	U	0.020	0.19
Chrysene	0.021	U	0.021	0.19
Dibenz(a,h)anthracene	0.014	U	0.014	0.19
Fluoranthene	0.022	U	0.022	0.19
Fluorene	0.90		0.017	0.19
Indeno[1,2,3-cd]pyrene	0.015	U	0.015	0.19
Naphthalene	0.15	I	0.015	0.19
Phenanthrene	0.018	U	0.018	0.19
Pyrene	0.027	U	0.027	0.19

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	60		37 - 133

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Client Sample ID: **TM-GP-27-B**

Lab Sample ID: 640-27414-13 Date Sampled: 04/22/2010 1840
Client Matrix: Water Date Received: 04/24/2010 1200

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method:	8270C LL	Analysis Batch: 640-68530		Instrument ID:	SMA
Preparation:	3520C	Prep Batch: 640-68191		Lab File ID:	A0050626.D
Dilution:	50			Initial Weight/Volume:	1060 mL
Date Analyzed:	05/06/2010 1831			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1-Methylnaphthalene	110		1.4	9.4
2-Methylnaphthalene	0.80	U	0.80	9.4
Acenaphthene	230		0.75	9.4
Acenaphthylene	0.47	U	0.47	9.4
Anthracene	0.57	U	0.57	9.4
Benzo[a]anthracene	0.90	U	0.90	9.4
Benzo[a]pyrene	0.80	U	0.80	9.4
Benzo[b]fluoranthene	1.1	U	1.1	9.4
Benzo[g,h,i]perylene	1.0	U	1.0	9.4
Benzo[k]fluoranthene	0.99	U	0.99	9.4
Chrysene	1.0	U	1.0	9.4
Dibenz(a,h)anthracene	0.71	U	0.71	9.4
Fluoranthene	1.1	U	1.1	9.4
Fluorene	62		0.85	9.4
Indeno[1,2,3-cd]pyrene	0.75	U	0.75	9.4
Naphthalene	13		0.75	9.4
Phenanthrene	0.90	U	0.90	9.4
Pyrene	1.4	U	1.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	J1	37 - 133

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	L	Off-scale high. Actual value is known to be greater than the value given.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TOL %Rec	BFB %Rec
640-27414-1	EB-1	101	97	73
640-27414-2	FD-1	102	100	75
640-27414-3	TM-GP-30-B	107	97	80
640-27414-4	TM-GP-29-B	103	97	80
640-27414-5	TM-GP-29-A	104	99	75
640-27414-6	TM-GP-30-A	102	100	75
640-27414-7	TM-GP-28-A	103	97	72
640-27414-8	TM-GP-28-B	102	95	77
640-27414-9	TM-GP-25-B	102	97	82
640-27414-10	TM-GP-26-A	101	96	77
640-27414-11	TM-GP-26-B	102	94	94
640-27414-12	TM-GP-27-A	101	95	84
640-27414-13	TM-GP-27-B	105	91	87
MB 640-68361/6		105	97	80
MB 640-68383/7		98	93	83
LCS 640-68361/2		104	101	104
LCS 640-68383/1		104	102	106
LCSD 640-68361/3		108	98	103
LCSD 640-68383/2		102	101	105
640-27414-11 MS	TM-GP-26-B MS	104	97	107
640-27414-11 MSD	TM-GP-26-B MSD	104	97	104

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	83-123
TOL = Toluene-d8 (Surr)	78-126
BFB = 4-Bromofluorobenzene	70-119

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Surrogate Recovery Report

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
640-27414-1	EB-1	74
640-27414-2	FD-1	77
640-27414-3	TM-GP-30-B	79
640-27414-4	TM-GP-29-B	74
640-27414-5	TM-GP-29-A	79
640-27414-6	TM-GP-30-A	75
640-27414-7	TM-GP-28-A	67
640-27414-8	TM-GP-28-B	77
640-27414-9	TM-GP-25-B	81
640-27414-10	TM-GP-26-A	72
640-27414-11	TM-GP-26-B	0J1
640-27414-12	TM-GP-27-A	60
640-27414-13	TM-GP-27-B	0J1
MB 640-68191/1-A		79
LCS 640-68191/2-A		78
LCSD 640-68191/3-A		78
640-27414-11 MS	TM-GP-26-B MS	0J1
640-27414-11 MSD	TM-GP-26-B MSD	0J1

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	37-133

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Method Blank - Batch: 640-68361

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 640-68361/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/29/2010 1434
Date Prepared: 04/29/2010 1434

Analysis Batch: 640-68361
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G042910.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.381	I	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Method Blank - Batch: 640-68361

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 640-68361/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/29/2010 1434
Date Prepared: 04/29/2010 1434

Analysis Batch: 640-68361
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G042910.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	105	83 - 123
Toluene-d8 (Surr)	97	78 - 126
4-Bromofluorobenzene	80	70 - 119

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID: LCS 640-68361/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/29/2010 1158
Date Prepared: 04/29/2010 1158

Analysis Batch: 640-68361
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G042904.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 640-68361/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/29/2010 1224
Date Prepared: 04/29/2010 1224

Analysis Batch: 640-68361
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G042905.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorodifluoromethane	112	113	28 - 133	2	35		
Chloromethane	97	101	62 - 130	3	34		
Vinyl chloride	103	105	66 - 121	2	31		
Bromomethane	65	78	22 - 179	18	44		
Chloroethane	108	105	53 - 144	3	38		
Methyl acetate	95	99	70 - 130	5	30		
Trichlorofluoromethane	104	109	62 - 138	5	40		
1,1,2-Trichloro-1,2,2-trifluoroethane	107	113	34 - 117	5	33		
1,1-Dichloroethene	103	105	43 - 118	2	29		
Acetone	85	100	55 - 183	16	27		
Carbon disulfide	101	102	42 - 126	2	26		
Methylene Chloride	98	84	52 - 132	15	30		
Methyl tert-butyl ether	85	90	67 - 128	6	30		
trans-1,2-Dichloroethene	98	99	46 - 125	1	32		
Cyclohexane	98	101	70 - 130	3	30		
1,1-Dichloroethane	96	100	54 - 132	5	30		
Methylcyclohexane	94	96	70 - 130	2	30		
cis-1,2-Dichloroethene	91	92	49 - 127	0	29		
2-Butanone (MEK)	85	91	60 - 164	7	24		
Chloroform	98	102	60 - 126	4	30		
1,1,1-Trichloroethane	98	97	58 - 136	1	21		
Carbon tetrachloride	99	99	53 - 134	1	19		
1,2-Dichloroethane	99	101	51 - 167	1	28		
Benzene	99	97	59 - 132	1	22		
Trichloroethene	97	97	59 - 129	0	22		
1,2-Dichloropropane	98	98	60 - 138	0	20		
Dichlorobromomethane	97	97	60 - 134	1	24		
cis-1,3-Dichloropropene	88	90	49 - 141	2	24		
4-Methyl-2-pentanone (MIBK)	49	52	61 - 143	4	25	J3	J3
Toluene	99	97	59 - 130	3	24		
trans-1,3-Dichloropropene	87	85	52 - 140	2	20		
1,1,2-Trichloroethane	95	96	60 - 140	1	22		
Tetrachloroethene	92	90	48 - 136	2	38		
2-Hexanone	84	88	60 - 174	5	25		

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68361/2	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042904.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1158			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1158				

LCSD Lab Sample ID:	LCSD 640-68361/3	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042905.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1224			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1224				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chlorodibromomethane	89	89	55 - 134	0	24		
Ethylene Dibromide	90	94	68 - 136	4	20		
Chlorobenzene	94	96	63 - 132	2	20		
Ethylbenzene	90	91	57 - 130	1	24		
m-Xylene & p-Xylene	89	91	56 - 129	2	26		
o-Xylene	86	86	52 - 128	0	25		
Styrene	95	95	51 - 127	0	20		
Bromoform	92	94	62 - 140	3	25		
Isopropylbenzene	86	86	56 - 144	0	21		
1,1,2,2-Tetrachloroethane	92	97	63 - 148	6	22		
1,3-Dichlorobenzene	90	93	55 - 147	3	21		
1,4-Dichlorobenzene	96	100	58 - 151	4	21		
1,2-Dichlorobenzene	92	96	60 - 154	5	22		
1,2-Dibromo-3-Chloropropane	72	80	59 - 156	11	50		
1,2,4-Trichlorobenzene	66	73	47 - 138	10	23		
1,2-Dichloroethene, Total	95	95	46 - 125	1	32		
Xylenes, Total	88	89	52 - 128	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	104	108	83 - 123
Toluene-d8 (Surr)	101	98	78 - 126
4-Bromofluorobenzene	104	103	70 - 119

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68361/2	Units:	ug/L	LCSD Lab Sample ID:	LCSD 640-68361/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/29/2010 1158			Date Analyzed:	04/29/2010 1224
Date Prepared:	04/29/2010 1158			Date Prepared:	04/29/2010 1224

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Dichlorodifluoromethane	30.0	30.0	33.5		34.0	
Chloromethane	30.0	30.0	29.2		30.2	
Vinyl chloride	30.0	30.0	30.9		31.6	
Bromomethane	30.0	30.0	19.6		23.4	
Chloroethane	30.0	30.0	32.3		31.4	
Methyl acetate	30.0	30.0	28.4		29.8	
Trichlorofluoromethane	30.0	30.0	31.2		32.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	30.0	32.2		33.8	
1,1-Dichloroethene	30.0	30.0	31.0		31.6	
Acetone	300	300	254		299	
Carbon disulfide	30.0	30.0	30.2		30.7	
Methylene Chloride	30.0	30.0	29.3		25.1	
Methyl tert-butyl ether	30.0	30.0	25.4		26.9	
trans-1,2-Dichloroethene	30.0	30.0	29.3		29.6	
Cyclohexane	30.0	30.0	29.5		30.3	
1,1-Dichloroethane	30.0	30.0	28.7		30.1	
Methylcyclohexane	30.0	30.0	28.2		28.8	
cis-1,2-Dichloroethene	30.0	30.0	27.4		27.5	
2-Butanone (MEK)	300	300	254		272	
Chloroform	30.0	30.0	29.5		30.7	
1,1,1-Trichloroethane	30.0	30.0	29.5		29.2	
Carbon tetrachloride	30.0	30.0	29.8		29.6	
1,2-Dichloroethane	30.0	30.0	29.8		30.2	
Benzene	30.0	30.0	29.7		29.2	
Trichloroethene	30.0	30.0	29.1		29.1	
1,2-Dichloropropane	30.0	30.0	29.4		29.5	
Dichlorobromomethane	30.0	30.0	29.0		29.2	
cis-1,3-Dichloropropene	30.0	30.0	26.5		26.9	
4-Methyl-2-pentanone (MIBK)	300	300	148	J3	155	J3
Toluene	30.0	30.0	29.8		29.0	
trans-1,3-Dichloropropene	30.0	30.0	26.0		25.6	
1,1,2-Trichloroethane	30.0	30.0	28.5		28.8	
Tetrachloroethene	30.0	30.0	27.6		27.1	
2-Hexanone	300	300	252		265	
Chlorodibromomethane	30.0	30.0	26.8		26.7	
Ethylene Dibromide	30.0	30.0	27.1		28.3	
Chlorobenzene	30.0	30.0	28.1		28.7	
Ethylbenzene	30.0	30.0	27.0		27.4	
m-Xylene & p-Xylene	60.0	60.0	53.5		54.5	
o-Xylene	30.0	30.0	25.9		25.9	
Styrene	30.0	30.0	28.6		28.6	

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68361/2	Units:	ug/L	LCSD Lab Sample ID:	LCSD 640-68361/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/29/2010 1158			Date Analyzed:	04/29/2010 1224
Date Prepared:	04/29/2010 1158			Date Prepared:	04/29/2010 1224

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromoform	30.0	30.0	27.5	28.2
Isopropylbenzene	30.0	30.0	25.8	25.8
1,1,2,2-Tetrachloroethane	30.0	30.0	27.5	29.2
1,3-Dichlorobenzene	30.0	30.0	27.0	27.9
1,4-Dichlorobenzene	30.0	30.0	28.8	30.0
1,2-Dichlorobenzene	30.0	30.0	27.5	28.7
1,2-Dibromo-3-Chloropropane	30.0	30.0	21.5	23.9
1,2,4-Trichlorobenzene	30.0	30.0	19.8	21.9
1,2-Dichloroethene, Total	60.0	60.0	56.7	57.1
Xylenes, Total	90.0	90.0	79.4	80.4

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	640-27414-11	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042906.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1250			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1250				

MSD Lab Sample ID:	640-27414-11	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042907.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1316			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1316				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dichlorodifluoromethane	110	112	37 - 139	2	31		
Chloromethane	116	118	56 - 137	1	16		
Vinyl chloride	116	119	63 - 126	3	23		
Bromomethane	77	78	23 - 140	1	41		
Chloroethane	136	130	43 - 165	4	45		
Methyl acetate	109	111	70 - 130	2	30		
Trichlorofluoromethane	113	113	60 - 157	1	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	120	120	43 - 128	0	34		
1,1-Dichloroethene	122	125	60 - 127	3	33		
Acetone	111	108	26 - 156	3	37		
Carbon disulfide	115	122	54 - 135	5	34		
Methylene Chloride	114	118	61 - 134	4	21		
Methyl tert-butyl ether	91	97	51 - 132	7	22		
trans-1,2-Dichloroethene	106	109	64 - 127	3	21		
Cyclohexane	99	97	70 - 130	2	30		
1,1-Dichloroethane	116	117	70 - 126	1	29		
Methylcyclohexane	79	78	70 - 130	2	30		
cis-1,2-Dichloroethene	96	105	70 - 122	9	22		
2-Butanone (MEK)	89	91	28 - 149	3	26		
Chloroform	104	115	70 - 124	11	21		
1,1,1-Trichloroethane	107	110	61 - 152	3	21		
Carbon tetrachloride	107	111	50 - 162	4	28		
1,2-Dichloroethane	113	119	65 - 150	5	19		
Benzene	110	103	65 - 130	3	19		
Trichloroethene	105	110	70 - 131	5	28		
1,2-Dichloropropane	102	105	66 - 135	3	22		
Dichlorobromomethane	95	105	65 - 135	10	22		
cis-1,3-Dichloropropene	76	80	46 - 131	5	25		
4-Methyl-2-pentanone (MIBK)	52	54	38 - 143	3	21		
Toluene	104	108	68 - 122	3	24		
trans-1,3-Dichloropropene	79	82	40 - 137	4	25		
1,1,2-Trichloroethane	103	101	60 - 132	2	22		

Client: CH2M Hill, Inc. Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	640-27414-11	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042906.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1250			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1250				

MSD Lab Sample ID:	640-27414-11	Analysis Batch:	640-68361	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G042907.D
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/29/2010 1316			Final Weight/Volume:	40 mL
Date Prepared:	04/29/2010 1316				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Tetrachloroethene	104	101	62 - 128	3	26		
2-Hexanone	96	99	20 - 173	3	19		
Chlorodibromomethane	90	91	58 - 131	1	18		
Ethylene Dibromide	97	96	58 - 131	2	21		
Chlorobenzene	105	106	70 - 125	1	23		
Ethylbenzene	138	132	63 - 124	3	25	J3	J3
m-Xylene & p-Xylene	104	100	68 - 121	4	24		
o-Xylene	90	96	67 - 119	6	26		
Styrene	95	101	62 - 118	6	26		
Bromoform	95	100	49 - 150	4	20		
Isopropylbenzene	95	97	70 - 136	2	26		
1,1,2,2-Tetrachloroethane	106	108	41 - 149	2	23		
1,3-Dichlorobenzene	97	104	70 - 137	7	24		
1,4-Dichlorobenzene	104	113	70 - 137	9	25		
1,2-Dichlorobenzene	118	118	70 - 142	0	24		
1,2-Dibromo-3-Chloropropane	324	267	30 - 169	19	26	J3	J3
1,2,4-Trichlorobenzene	182	183	52 - 134	1	25	J3	J3
1,2-Dichloroethene, Total	101	107	68 - 123	6	21		
Xylenes, Total	99	98	67 - 119	1	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Dibromofluoromethane	104	104	83 - 123
Toluene-d8 (Surr)	97	97	78 - 126
4-Bromofluorobenzene	107	104	70 - 119

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	640-27414-11	Units: ug/L	MSD Lab Sample ID:	640-27414-11	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	04/29/2010 1250		Date Analyzed:	04/29/2010 1316	
Date Prepared:	04/29/2010 1250		Date Prepared:	04/29/2010 1316	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Dichlorodifluoromethane	0.55	U	10.0	10.0	11.0		11.2	
Chloromethane	0.28	U	10.0	10.0	11.6		11.8	
Vinyl chloride	0.29	U	10.0	10.0	11.6		11.9	
Bromomethane	0.25	U	10.0	10.0	7.74		7.83	
Chloroethane	0.53	U	10.0	10.0	13.6		13.0	
Methyl acetate	0.25	U	10.0	10.0	10.9		11.1	
Trichlorofluoromethane	0.24	U	10.0	10.0	11.3		11.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	10.0	10.0	12.0		12.0	
1,1-Dichloroethene	0.24	U	10.0	10.0	12.2		12.5	
Acetone	3.0	U	100	100	111		108	
Carbon disulfide	0.86	J	10.0	10.0	12.4		13.0	
Methylene Chloride	0.27	U	10.0	10.0	11.4		11.8	
Methyl tert-butyl ether	0.21	U	10.0	10.0	9.06		9.74	
trans-1,2-Dichloroethene	0.25	U	10.0	10.0	10.6		10.9	
Cyclohexane	0.28	U	10.0	10.0	9.89		9.68	
1,1-Dichloroethane	0.18	U	10.0	10.0	11.6		11.7	
Methylcyclohexane	0.30	U	10.0	10.0	7.95		7.81	
cis-1,2-Dichloroethene	0.22	U	10.0	10.0	9.56		10.5	
2-Butanone (MEK)	3.0	U	100	100	88.8		91.2	
Chloroform	0.21	U	10.0	10.0	10.4		11.5	
1,1,1-Trichloroethane	0.29	U	10.0	10.0	10.7		11.0	
Carbon tetrachloride	0.20	U	10.0	10.0	10.7		11.1	
1,2-Dichloroethane	0.28	U	10.0	10.0	11.3		11.9	
Benzene	17		10.0	10.0	27.6		26.8	
Trichloroethene	0.26	U	10.0	10.0	10.5		11.0	
1,2-Dichloropropane	0.27	U	10.0	10.0	10.2		10.5	
Dichlorobromomethane	0.26	U	10.0	10.0	9.46		10.5	
cis-1,3-Dichloropropene	0.19	U	10.0	10.0	7.63		8.04	
4-Methyl-2-pentanone (MIBK)	2.2	U	100	100	52.0		53.7	
Toluene	0.75	J	10.0	10.0	11.2		11.5	
trans-1,3-Dichloropropene	0.20	U	10.0	10.0	7.92		8.22	
1,1,2-Trichloroethane	0.34	U	10.0	10.0	10.3		10.1	
Tetrachloroethene	0.20	U	10.0	10.0	10.4		10.1	
2-Hexanone	2.6	U	100	100	95.8		98.9	
Chlorodibromomethane	0.16	U	10.0	10.0	9.01		9.13	
Ethylene Dibromide	0.25	U	10.0	10.0	9.73		9.57	
Chlorobenzene	0.27	U	10.0	10.0	10.5		10.6	
Ethylbenzene	9.1		10.0	10.0	22.9	J3	22.3	J3
m-Xylene & p-Xylene	2.9		20.0	20.0	23.6		22.8	
o-Xylene	1.2		10.0	10.0	10.2		10.7	
Styrene	0.22	U	10.0	10.0	9.52		10.1	

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-68361

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	640-27414-11	Units: ug/L	MSD Lab Sample ID:	640-27414-11	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	04/29/2010 1250		Date Analyzed:	04/29/2010 1316	
Date Prepared:	04/29/2010 1250		Date Prepared:	04/29/2010 1316	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Bromoform	0.18	U	10.0	10.0	9.53		9.96	
Isopropylbenzene	1.2		10.0	10.0	10.6		10.8	
1,1,2,2-Tetrachloroethane	0.25	U	10.0	10.0	10.6		10.8	
1,3-Dichlorobenzene	0.21	U	10.0	10.0	9.69		10.4	
1,4-Dichlorobenzene	0.19	U	10.0	10.0	10.4		11.3	
1,2-Dichlorobenzene	0.18	U	10.0	10.0	11.8		11.8	
1,2-Dibromo-3-Chloropropane	0.32	U	10.0	10.0	32.4	J3	26.7	J3
1,2,4-Trichlorobenzene	0.12	U	10.0	10.0	18.2	J3	18.3	J3
1,2-Dichloroethene, Total	0.45	U	20.0	20.0	20.2		21.4	
Xylenes, Total	4.0		30.0	30.0	33.8		33.5	

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Method Blank - Batch: 640-68383

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 640-68383/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/30/2010 1628
Date Prepared: 04/30/2010 1628

Analysis Batch: 640-68383
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G043010.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
Dichlorodifluoromethane	0.55	U	0.55	1.0
Chloromethane	0.28	U	0.28	1.0
Vinyl chloride	0.29	U	0.29	1.0
Bromomethane	0.25	U	0.25	1.0
Chloroethane	0.53	U	0.53	1.0
Methyl acetate	0.25	U	0.25	10
Trichlorofluoromethane	0.24	U	0.24	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	1.0
1,1-Dichloroethene	0.24	U	0.24	1.0
Acetone	3.0	U	3.0	25
Carbon disulfide	0.13	U	0.13	1.0
Methylene Chloride	0.27	U	0.27	5.0
Methyl tert-butyl ether	0.21	U	0.21	1.0
trans-1,2-Dichloroethene	0.25	U	0.25	1.0
Cyclohexane	0.28	U	0.28	1.0
1,1-Dichloroethane	0.18	U	0.18	1.0
Methylcyclohexane	0.30	U	0.30	1.0
cis-1,2-Dichloroethene	0.22	U	0.22	1.0
2-Butanone (MEK)	3.0	U	3.0	10
Chloroform	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.29	U	0.29	1.0
Carbon tetrachloride	0.20	U	0.20	1.0
1,2-Dichloroethane	0.28	U	0.28	1.0
Benzene	0.28	U	0.28	1.0
Trichloroethene	0.26	U	0.26	1.0
1,2-Dichloropropane	0.27	U	0.27	1.0
Dichlorobromomethane	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.19	U	0.19	1.0
4-Methyl-2-pentanone (MIBK)	2.2	U	2.2	10
Toluene	0.24	U	0.24	1.0
trans-1,3-Dichloropropene	0.20	U	0.20	1.0
1,1,2-Trichloroethane	0.34	U	0.34	1.0
Tetrachloroethene	0.20	U	0.20	1.0
2-Hexanone	2.6	U	2.6	10
Chlorodibromomethane	0.16	U	0.16	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Chlorobenzene	0.27	U	0.27	1.0
Ethylbenzene	0.25	U	0.25	1.0
m-Xylene & p-Xylene	0.45	U	0.45	2.0
o-Xylene	0.23	U	0.23	1.0
Styrene	0.22	U	0.22	1.0
Bromoform	0.18	U	0.18	1.0
Isopropylbenzene	0.24	U	0.24	1.0

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Method Blank - Batch: 640-68383

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 640-68383/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/30/2010 1628
Date Prepared: 04/30/2010 1628

Analysis Batch: 640-68383
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G043010.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
1,1,2,2-Tetrachloroethane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.21	U	0.21	1.0
1,4-Dichlorobenzene	0.19	U	0.19	1.0
1,2-Dichlorobenzene	0.18	U	0.18	1.0
1,2-Dibromo-3-Chloropropane	0.32	U	0.32	1.0
1,2,4-Trichlorobenzene	0.12	U	0.12	1.0
1,2-Dichloroethene, Total	0.45	U	0.45	1.0
Xylenes, Total	0.68	U	0.68	2.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	98	83 - 123
Toluene-d8 (Surr)	93	78 - 126
4-Bromofluorobenzene	83	70 - 119

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68383

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID: LCS 640-68383/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/30/2010 1351
Date Prepared: 04/30/2010 1351

Analysis Batch: 640-68383
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G043004.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 640-68383/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/30/2010 1418
Date Prepared: 04/30/2010 1418

Analysis Batch: 640-68383
Prep Batch: N/A
Units: ug/L

Instrument ID: VMG
Lab File ID: 2G043005.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Dichlorodifluoromethane	94	88	28 - 133	7	35		
Chloromethane	84	84	62 - 130	1	34		
Vinyl chloride	94	93	66 - 121	1	31		
Bromomethane	63	66	22 - 179	5	44		
Chloroethane	103	100	53 - 144	2	38		
Methyl acetate	100	102	70 - 130	2	30		
Trichlorofluoromethane	102	96	62 - 138	6	40		
1,1,2-Trichloro-1,2,2-trifluoroethane	111	106	34 - 117	4	33		
1,1-Dichloroethene	107	104	43 - 118	4	29		
Acetone	89	108	55 - 183	19	27		
Carbon disulfide	104	102	42 - 126	2	26		
Methylene Chloride	102	97	52 - 132	5	30	L	
Methyl tert-butyl ether	87	88	67 - 128	0	30		
trans-1,2-Dichloroethene	98	95	46 - 125	4	32		
Cyclohexane	109	102	70 - 130	7	30		
1,1-Dichloroethane	100	96	54 - 132	4	30		
Methylcyclohexane	96	95	70 - 130	1	30		
cis-1,2-Dichloroethene	93	89	49 - 127	4	29		
2-Butanone (MEK)	89	100	60 - 164	12	24		
Chloroform	100	98	60 - 126	2	30		
1,1,1-Trichloroethane	105	98	58 - 136	7	21		
Carbon tetrachloride	102	96	53 - 134	6	19		
1,2-Dichloroethane	101	100	51 - 167	1	28		
Benzene	100	96	59 - 132	4	22		
Trichloroethene	98	95	59 - 129	3	22		
1,2-Dichloropropane	102	96	60 - 138	7	20		
Dichlorobromomethane	100	93	60 - 134	7	24		
cis-1,3-Dichloropropene	92	88	49 - 141	5	24		
4-Methyl-2-pentanone (MIBK)	51	52	61 - 143	3	25	J3	J3
Toluene	102	97	59 - 130	5	24		
trans-1,3-Dichloropropene	88	83	52 - 140	6	20		
1,1,2-Trichloroethane	101	97	60 - 140	4	22		
Tetrachloroethene	96	89	48 - 136	7	38		
2-Hexanone	87	92	60 - 174	5	25		

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68383

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68383/1	Analysis Batch:	640-68383	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G043004.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 1351			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 1351				

LCSD Lab Sample ID:	LCSD 640-68383/2	Analysis Batch:	640-68383	Instrument ID:	VMG
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	2G043005.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	40 mL
Date Analyzed:	04/30/2010 1418			Final Weight/Volume:	40 mL
Date Prepared:	04/30/2010 1418				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chlorodibromomethane	92	85	55 - 134	8	24		
Ethylene Dibromide	96	92	68 - 136	4	20		
Chlorobenzene	97	93	63 - 132	4	20		
Ethylbenzene	92	91	57 - 130	1	24		
m-Xylene & p-Xylene	93	88	56 - 129	5	26		
o-Xylene	89	84	52 - 128	5	25		
Styrene	99	93	51 - 127	6	20		
Bromoform	93	89	62 - 140	5	25		
Isopropylbenzene	86	86	56 - 144	1	21		
1,1,2,2-Tetrachloroethane	93	95	63 - 148	1	22		
1,3-Dichlorobenzene	91	88	55 - 147	4	21		
1,4-Dichlorobenzene	98	94	58 - 151	4	21		
1,2-Dichlorobenzene	93	93	60 - 154	1	22		
1,2-Dibromo-3-Chloropropane	79	93	59 - 156	15	50		
1,2,4-Trichlorobenzene	52	71	47 - 138	31	23	L	J3
1,2-Dichloroethene, Total	96	92	46 - 125	4	32		
Xylenes, Total	91	87	52 - 128	5	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	104	102	83 - 123
Toluene-d8 (Surr)	102	101	78 - 126
4-Bromofluorobenzene	106	105	70 - 119

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-68383

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68383/1	Units:	ug/L	LCSD Lab Sample ID:	LCSD 640-68383/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/30/2010 1351			Date Analyzed:	04/30/2010 1418
Date Prepared:	04/30/2010 1351			Date Prepared:	04/30/2010 1418

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Dichlorodifluoromethane	30.0	30.0	28.1		26.3	
Chloromethane	30.0	30.0	25.3		25.1	
Vinyl chloride	30.0	30.0	28.1		27.8	
Bromomethane	30.0	30.0	18.9		19.9	
Chloroethane	30.0	30.0	30.8		30.1	
Methyl acetate	30.0	30.0	29.9		30.7	
Trichlorofluoromethane	30.0	30.0	30.5		28.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	30.0	33.2		31.8	
1,1-Dichloroethene	30.0	30.0	32.2		31.1	
Acetone	300	300	267		323	
Carbon disulfide	30.0	30.0	31.3		30.7	
Methylene Chloride	30.0	30.0	30.5	L	29.1	
Methyl tert-butyl ether	30.0	30.0	26.2		26.4	
trans-1,2-Dichloroethene	30.0	30.0	29.5		28.4	
Cyclohexane	30.0	30.0	32.7		30.7	
1,1-Dichloroethane	30.0	30.0	30.0		28.7	
Methylcyclohexane	30.0	30.0	28.8		28.4	
cis-1,2-Dichloroethene	30.0	30.0	27.9		26.7	
2-Butanone (MEK)	300	300	266		299	
Chloroform	30.0	30.0	29.9		29.3	
1,1,1-Trichloroethane	30.0	30.0	31.5		29.5	
Carbon tetrachloride	30.0	30.0	30.5		28.9	
1,2-Dichloroethane	30.0	30.0	30.4		30.0	
Benzene	30.0	30.0	30.0		28.9	
Trichloroethene	30.0	30.0	29.4		28.4	
1,2-Dichloropropane	30.0	30.0	30.7		28.8	
Dichlorobromomethane	30.0	30.0	30.0		28.0	
cis-1,3-Dichloropropene	30.0	30.0	27.7		26.3	
4-Methyl-2-pentanone (MIBK)	300	300	153	J3	157	J3
Toluene	30.0	30.0	30.6		29.2	
trans-1,3-Dichloropropene	30.0	30.0	26.4		24.9	
1,1,2-Trichloroethane	30.0	30.0	30.2		29.0	
Tetrachloroethene	30.0	30.0	28.7		26.6	
2-Hexanone	300	300	262		275	
Chlorodibromomethane	30.0	30.0	27.6		25.6	
Ethylene Dibromide	30.0	30.0	28.7		27.6	
Chlorobenzene	30.0	30.0	29.1		27.9	
Ethylbenzene	30.0	30.0	27.5		27.2	
m-Xylene & p-Xylene	60.0	60.0	55.7		53.0	
o-Xylene	30.0	30.0	26.6		25.3	
Styrene	30.0	30.0	29.6		27.8	

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-68383

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 640-68383/1	Units:	ug/L	LCSD Lab Sample ID:	LCSD 640-68383/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/30/2010 1351			Date Analyzed:	04/30/2010 1418
Date Prepared:	04/30/2010 1351			Date Prepared:	04/30/2010 1418

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Bromoform	30.0	30.0	27.9		26.7	
Isopropylbenzene	30.0	30.0	25.9		25.7	
1,1,2,2-Tetrachloroethane	30.0	30.0	28.0		28.4	
1,3-Dichlorobenzene	30.0	30.0	27.3		26.4	
1,4-Dichlorobenzene	30.0	30.0	29.3		28.1	
1,2-Dichlorobenzene	30.0	30.0	28.0		27.8	
1,2-Dibromo-3-Chloropropane	30.0	30.0	23.8		27.8	
1,2,4-Trichlorobenzene	30.0	30.0	15.6	L	21.3	J3
1,2-Dichloroethene, Total	60.0	60.0	57.4		55.1	
Xylenes, Total	90.0	90.0	82.3		78.3	

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Method Blank - Batch: 640-68191

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: MB 640-68191/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2010 1442
Date Prepared: 04/27/2010 1245

Analysis Batch: 640-68489
Prep Batch: 640-68191
Units: ug/L

Instrument ID: SMA
Lab File ID: A0050514.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	PQL
1-Methylnaphthalene	0.030	U	0.030	0.20
2-Methylnaphthalene	0.017	U	0.017	0.20
Acenaphthene	0.016	U	0.016	0.20
Acenaphthylene	0.010	U	0.010	0.20
Anthracene	0.012	U	0.012	0.20
Benzo[a]anthracene	0.019	U	0.019	0.20
Benzo[a]pyrene	0.017	U	0.017	0.20
Benzo[b]fluoranthene	0.024	U	0.024	0.20
Benzo[g,h,i]perylene	0.022	U	0.022	0.20
Benzo[k]fluoranthene	0.021	U	0.021	0.20
Chrysene	0.022	U	0.022	0.20
Dibenz(a,h)anthracene	0.015	U	0.015	0.20
Fluoranthene	0.023	U	0.023	0.20
Fluorene	0.018	U	0.018	0.20
Indeno[1,2,3-cd]pyrene	0.016	U	0.016	0.20
Naphthalene	0.016	U	0.016	0.20
Phenanthrene	0.019	U	0.019	0.20
Pyrene	0.029	U	0.029	0.20

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	79	37 - 133

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 640-68191

Method: 8270C LL
Preparation: 3520C

LCS Lab Sample ID:	LCS 640-68191/2-A	Analysis Batch:	640-68489	Instrument ID:	SMA
Client Matrix:	Water	Prep Batch:	640-68191	Lab File ID:	A0050515.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	05/05/2010 1501			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

LCSD Lab Sample ID:	LCSD 640-68191/3-A	Analysis Batch:	640-68489	Instrument ID:	SMA
Client Matrix:	Water	Prep Batch:	640-68191	Lab File ID:	A0050516.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	05/05/2010 1520			Final Weight/Volume:	1.0 mL
Date Prepared:	04/27/2010 1245			Injection Volume:	1 uL

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1-Methylnaphthalene	72	72	61 - 128	0	20		
2-Methylnaphthalene	72	72	58 - 104	0	20		
Acenaphthene	81	80	51 - 123	2	20		
Acenaphthylene	80	80	48 - 121	0	20		
Anthracene	74	73	53 - 136	1	20		
Benzo[a]anthracene	91	94	73 - 108	3	20		
Benzo[a]pyrene	85	89	67 - 111	5	20		
Benzo[b]fluoranthene	97	94	68 - 121	4	20		
Benzo[g,h,i]perylene	68	71	41 - 129	4	25		
Benzo[k]fluoranthene	94	107	68 - 134	13	20		
Chrysene	92	96	63 - 136	4	20		
Dibenz(a,h)anthracene	63	66	32 - 124	4	25		
Fluoranthene	84	84	57 - 140	0	20		
Fluorene	75	76	61 - 123	1	20		
Indeno[1,2,3-cd]pyrene	73	73	37 - 130	1	25		
Naphthalene	83	80	59 - 110	4	20		
Phenanthrene	86	85	47 - 129	1	20		
Pyrene	95	98	52 - 131	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	78	78	37 - 133

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-68191

Method: 8270C LL
Preparation: 3520C

LCS Lab Sample ID:	LCS 640-68191/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 640-68191/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	05/05/2010 1501			Date Analyzed:	05/05/2010 1520
Date Prepared:	04/27/2010 1245			Date Prepared:	04/27/2010 1245

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1-Methylnaphthalene	4.00	4.00	2.89	2.88
2-Methylnaphthalene	4.00	4.00	2.89	2.88
Acenaphthene	4.00	4.00	3.24	3.19
Acenaphthylene	4.00	4.00	3.20	3.20
Anthracene	4.00	4.00	2.95	2.92
Benzo[a]anthracene	4.00	4.00	3.63	3.76
Benzo[a]pyrene	4.00	4.00	3.41	3.57
Benzo[b]fluoranthene	4.00	4.00	3.89	3.75
Benzo[g,h,i]perylene	4.00	4.00	2.73	2.85
Benzo[k]fluoranthene	4.00	4.00	3.76	4.28
Chrysene	4.00	4.00	3.70	3.85
Dibenz(a,h)anthracene	4.00	4.00	2.52	2.63
Fluoranthene	4.00	4.00	3.36	3.37
Fluorene	4.00	4.00	3.01	3.04
Indeno[1,2,3-cd]pyrene	4.00	4.00	2.91	2.94
Naphthalene	4.00	4.00	3.34	3.21
Phenanthrene	4.00	4.00	3.44	3.42
Pyrene	4.00	4.00	3.80	3.91

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-68191

Method: 8270C LL
Preparation: 3520C

MS Lab Sample ID:	640-27414-11	Analysis Batch: 640-68530	Instrument ID: SMA
Client Matrix:	Water	Prep Batch: 640-68191	Lab File ID: A0050627.D
Dilution:	40		Initial Weight/Volume: 1060 mL
Date Analyzed:	05/06/2010 1849		Final Weight/Volume: 1.0 mL
Date Prepared:	04/27/2010 1245		Injection Volume: 1 uL

MSD Lab Sample ID:	640-27414-11	Analysis Batch: 640-68530	Instrument ID: SMA
Client Matrix:	Water	Prep Batch: 640-68191	Lab File ID: A0050628.D
Dilution:	40		Initial Weight/Volume: 1060 mL
Date Analyzed:	05/06/2010 1908		Final Weight/Volume: 1.0 mL
Date Prepared:	04/27/2010 1245		Injection Volume: 1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1-Methylnaphthalene	-2010	-317	58 - 119	47	20	J3	J3
2-Methylnaphthalene	64	101	49 - 100	45	20	I	I J3
Acenaphthene	-4000	-491	53 - 112	55	21	J3	J3
Acenaphthylene	12	73	49 - 110	49	20	I J3	I J3
Anthracene	9	69	62 - 121	41	22	I J3	I J3
Benzo[a]anthracene	69	97	42 - 118	33	21	I	I J3
Benzo[a]pyrene	0	0	46 - 114	NC	20	U J3	U J3
Benzo[b]fluoranthene	0	0	46 - 118	NC	28	U J3	U J3
Benzo[g,h,i]perylene	0	0	10 - 123	NC	34	U J3	U J3
Benzo[k]fluoranthene	0	0	33 - 137	NC	23	U J3	U J3
Chrysene	63	87	43 - 138	32	23	I	I J3
Dibenz(a,h)anthracene	0	0	27 - 110	NC	31	U J3	U J3
Fluoranthene	76	108	51 - 132	35	20	I	I J3
Fluorene	-929	-113	53 - 118	46	20	J3	J3
Indeno[1,2,3-cd]pyrene	0	0	12 - 122	NC	27	U J3	U J3
Naphthalene	-2320	-758	51 - 107	45	20	J3	J3
Phenanthrene	16	66	53 - 123	35	20	I J3	I J3
Pyrene	83	126	52 - 134	40	20	I	I J3

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
o-Terphenyl	0	J1	0	J1	37 - 133

Client: CH2M Hill, Inc.

Job Number: 640-27414-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-68191

Method: 8270C LL
Preparation: 3520C

MS Lab Sample ID:	640-27414-11	Units: ug/L	MSD Lab Sample ID:	640-27414-11	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	40		Dilution:	40	
Date Analyzed:	05/06/2010 1849		Date Analyzed:	05/06/2010 1908	
Date Prepared:	04/27/2010 1245		Date Prepared:	04/27/2010 1245	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1-Methylnaphthalene	180		3.77	3.77	105	J3	169	J3
2-Methylnaphthalene	0.68	U	3.77	3.77	2.41	I	3.80	I J3
Acenaphthene	330		3.77	3.77	175	J3	308	J3
Acenaphthylene	3.0	I	3.77	3.77	3.52	I J3	5.82	I J3
Anthracene	4.1	I	3.77	3.77	4.42	I J3	6.71	I J3
Benzo[a]anthracene	0.76	U	3.77	3.77	2.62	I	3.67	I J3
Benzo[a]pyrene	0.68	U	3.77	3.77	0.64	U J3	0.64	U J3
Benzo[b]fluoranthene	0.96	U	3.77	3.77	0.91	U J3	0.91	U J3
Benzo[g,h,i]perylene	0.88	U	3.77	3.77	0.83	U J3	0.83	U J3
Benzo[k]fluoranthene	0.84	U	3.77	3.77	0.79	U J3	0.79	U J3
Chrysene	0.88	U	3.77	3.77	2.38	I	3.28	I J3
Dibenz(a,h)anthracene	0.60	U	3.77	3.77	0.57	U J3	0.57	U J3
Fluoranthene	0.92	U	3.77	3.77	2.86	I	4.07	I J3
Fluorene	86		3.77	3.77	51.1	J3	81.9	J3
Indeno[1,2,3-cd]pyrene	0.64	U	3.77	3.77	0.60	U J3	0.60	U J3
Naphthalene	190		3.77	3.77	102	J3	161	J3
Phenanthrene	3.9	I	3.77	3.77	4.47	I J3	6.37	I J3
Pyrene	1.2	U	3.77	3.77	3.15	I	4.75	I J3

Jacksonville Service Center
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Jacksonville, FL 32256
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: W Elliott	Lab PM: Preston, Tim	Carrier Tracking No(s):	COC No: 640-20980.1
Client Contact: Dr. Walt Ogburn	Phone: 352-339-6839	E-Mail: timothyr.preston@testamericainc.com		Page: Page 1 of 2
Company: CH2M Hill, Inc.				Job #: 640-27414
Address: 9428 Bay Meadows Road Suite 300	Due Date Requested:			
City: Jacksonville	TAT Requested (days):			
State, Zip: FL, 32256				
Phone:	PO #: 925140			
Email: walt.ogburn@ch2m.com	WO #:			
Project Name: JEA - TransMontaigne	Project #: 64002840			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - VOCs	8270C_LL - PAH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N		
EB-1	4/22/10	1800	G	W	N	3	2		
FD-1									
TM-GP-30-B		1100							
TM-GP-29-B		1140							
TM-GP-29-A		1615							
TM-GP-30-A		1005							
TM-GP-28-A		1225							
TM-GP-28-B		1330							
TM-GP-25-B		1540							
TM-GP-26-A		1545							
TM-GP-26-B		1705							

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	4/22/10 19:15		Received by:	22APR10 1915	TA
Relinquished by:	22APR10 1915	TA	Received by:	4-24-10 1200	
Relinquished by:			Received by:		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.6, 0.9, 2.8, 1.7

Jacksonville Service Center
8933 Western Way Suite 1
Jacksonville, FL 32256
Phone (904) 519-9551 Fax (904) 519-9552

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: W. Elliott	Lab PM: Preston, Tim	Carrier Tracking No(s):	COC No: 640-20980.2
Client Contact: Dr. Walt Ogburn	Phone: 352-339-6839	E-Mail: timothyr.preston@testamericainc.com		Page: Page 2 of 2
Company: CH2M Hill, Inc.				Job #: 640-27414
Address: 9428 Bay Meadows Road Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Jacksonville	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: FL, 32256				Other:
Phone:	PO #: 925140			
Email: walt.ogburn@ch2m.com	WO #:			
Project Name: JEA - TransMontaigne	Project #: 64002840			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOCs	8270C_LL - PAH	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N		
TM-GP-26-B MS/MSD	4/22/10	1705	G	W	N	Y	3	2		
TM-GP-27-A		1745								
TM-GP-27-B		1840								

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by:	4/22/10 19:15		Received by:	22 APRIL 1915	TA
Relinquished by:	23 APR 10 0915	TA	Received by:	4-24-10 1200	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.6, 0.9, 2.8, 1.7

Attachment 4
Sample Station Coordinates
(See Enclosed CD)

JEA KGS TransMontaigne Site Survey Data, 2010

TarGOST Probe and Groundwater Sample Locations

STATION ID	EASTING	NORTHING	ELEVATION NATURAL GROUND, ft.	DESCRIPTION
TM-DP-25	459590.01	2191916.19	6.5	DIRECT PUSH
TM-DP-26	459617.02	2191913.13	6.8	DIRECT PUSH
TM-DP-27	459663.22	2191904.26	7.1	DIRECT PUSH
TM-DP-28	459919.34	2191935.90	5.4	DIRECT PUSH
TM-DP-29	459959.56	2191935.30	5.3	DIRECT PUSH
TM-DP-30	459997.47	2191939.42	5.2	DIRECT PUSH

Notes:

Horizontal datum based on State Plane System, Zone 0901 Florida East, North American Datum 1983.

Vertical datum is in feet based on National Geodetic Vertical Datum of 1929

TarGOST probes and Groundwater Geoprobe Samples were co-located

Source: Bowyer-Singleton & Associates, 2010; William Hinkle, Florida RLS # 4633

JEA KGS TransMontaigne Site Survey Data, 2010

Surface Soil Sample Locations

STATION ID	Latitude	Longitude
TM-SB-25	30° 21' 41.5"	81° 37' 23.9"
TM-SB-26	30° 21' 41.5"	81° 37' 23.3"
TM-SB-27	30° 21' 41.5"	81° 37' 22.8"
TM-SB-28	30° 21' 41.5"	81° 37' 22.2"
TM-SB-29	30° 21' 41.5"	81° 37' 21.7"
TM-SB-30	30° 21' 41.4"	81° 37' 21.0"
TM-SB-31	30° 21' 41.4"	81° 37' 20.4"
TM-SB-32	30° 21' 41.5"	81° 37' 19.9"
TM-SB-33	30° 21' 41.5"	81° 37' 19.3"
TM-SB-34	30° 21' 41.4"	81° 37' 18.8"
TM-SB-35	30° 21' 41.6"	81° 37' 18.2"

Coordinates recorded from handheld GPS unit.