SOIL/SEDIMENT SAMPLING REPORT

Encycle/ASARCO Offsite Site
Up River Road
Corpus Christi, Nueces County, Texas
TXN000607159

Prepared by the
U.S. Environmental Protection Agency, Region 6

September 30, 2011

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1 INTRODUCTION

The United States Environmental Protection Agency (EPA) Region 6, in cooperation with the Texas Commission on Environmental Quality (TCEQ), conducted soil and sediment sampling in the area surrounding the former Encycle/ASARCO facility located in Corpus Christi, Texas. The former Encycle/ASARCO facility is approximately 108 acres in size and is bordered on the north by a ship channel and on the south by the Dona Park neighborhood (see Figure 1). The facility originally produced high-grade zinc for ASARCO from 1941 to 1985. Between 1988 and 2002, Encycle managed a commercial waste management facility treating hazardous and non-hazardous materials for recycling, reclamation, and volume reduction. Encycle filed Chapter 7 bankruptcy in 2003. A Trustee was appointed by the federal bankruptcy court to oversee and remediate the site. Demolition began in April 2011 and is expected to be completed in Spring 2012. Remediation of the site will begin in 2012. The TCEQ is overseeing the Trustee's activities and EPA is consulting with TCEQ on all site activities.

The TCEQ collected samples at the former Encycle/ASARCO facility in May 2011 to screen for the presence of any hazardous organic compounds at the site. Analysis of sediment samples collected from the storm water collection system at the site detected elevated levels of Aroclor 1268 (a polychlorinated biphenyl – PCB) and polyaromatic hydrocarbons (PAHs).

The EPA collected soil and sediment samples from areas located offsite from the former Encycle/ASARCO site in an effort to determine if Aroclor 1268 and PAHs may have been transported and deposited offsite. Completion of this report included the collection and analysis of soil and sediment samples from various locations located outside the southern property boundary of the former Encycle/ASARCO facility adjacent to the Dona Park neighborhood. This document includes site information including a description of the site and its location (Section 2), a description of the sampling activities (Section 3), and a discussion of the sampling results (Section 4).

2 SITE INFORMATION

2.1 Location and General Information

Site Name:	Encycle/ASARCO Offsite
EPA ID No.:	TXN000607159
Location:	Corpus Christi, Nueces County, Texas
Address:	Area surrounding the former Encycle/ASARCO facility located at 5500 Up River Road Corpus Christi, Texas 78409
Latitude: Longitude:	N 27° 48’ 47.6” W 97° 27’ 50.8” (geographical center of the former Encycle/ASARCO facility)
Congressional District:	Texas 27th District
Site Steward:	Mike Boudloche, Chapter 7 Trustee 555 North Carancahua, Suite 600 Corpus Christi, Texas 78478

2.2 Site Description

The former Encycle/ASARCO facility is approximately 108 acres bordered on the north by a ship channel. Located east and southeast of the facility are operating petroleum refineries. South of the facility is the Dona Park residential neighborhood, and west is a grain elevator/storage facility. The facility originally produced high-grade zinc for ASARCO from 1941 to 1985. Between 1988 and 2002, Encycle managed a commercial waste management facility treating hazardous and non-hazardous materials for recycling, reclamation, and volume reduction. Encycle filed Chapter 7 bankruptcy in 2003. A Trustee was appointed by the federal bankruptcy court to oversee and remediate the site. Demolition began in April 2011 and is

expected to be completed in Spring 2012. Remediation of the site is expected to begin in 2012. TCEQ is overseeing the Trustee's activities and EPA is consulting with TCEQ on all site activities.

In May 2011, during the analysis of split samples collected as part of TCEQ's screening for organic hazardous compounds at the former Encycle facility, the EPA Houston laboratory detected Aroclor 1268 in sediment samples. This Aroclor is not a routine target analyte of the analytical method utilized for polychlorinated biphenyls (PCBs), but the EPA Houston laboratory conducted extra analyses of the samples and confirmed that Aroclor 1268 was present in the sediment samples. In a sediment sample collected from the west lagoon (sample SE-01), Aroclor 1268 was detected at 7.8 milligrams per kilogram (mg/kg). In a sediment sample from the east lagoon (sample SE-02), Aroclor 1268 was detected at 1.9 mg/kg. The 2011 EPA Regional Screening Level (RSL) for Aroclor 1268 in soil is 0.74 mg/kg based on an industrial setting. The RSL for Aroclor 1268 in soil based on a residential setting is 0.22 mg/kg. EPA did not detect any PCB congeners other than Aroclor 1268 in these sediment samples.

Galbestos siding and roofing materials have been widely used at the former Encycle site and some of it is badly deteriorated. Information from other sites in other states has attributed PCB contamination, in particular Aroclor 1268, in soils and sediments to siding and roofing materials identified as Galbestos or similar to Galbestos but under a different trade name. These findings raise concerns about the source of PCBs in the sediment. Relatively high levels of polyaromatic hydrocarbons (PAHs) were also detected in the sediment. PAHs would also be associated with the asphaltic materials used in the Galbestos products prevalent at the site. In sediment sample SE-01 from the west lagoon, PAHs were at concentrations approximately ten times the industrial screening levels. The sediment was removed from the lagoons during closure operations conducted in 2003 and 2004. There have been no industrial operations since the lagoons were closed. This indicates a source of PCBs and PAHs from other than the industrial processes at the plant. TCEQ conducted a second phase of organic sampling at the former Encycle facility during the week of June 13, 2011. Analytical results from this second phase of sampling confirm

that the Galbestos materials used at the former Encycle facility are the source of Aroclor 1268 and a significant source of PAHs.

3 FIELD ACTIVITIES

As stated in Section 1 of this report, samples collected at the former Encycle/ASARCO facility detected elevated levels of Aroclor 1268 and PAHs. These contaminants have been attributed via laboratory analyses to the building material, Galbestos, which prevalent at the facility. In an effort to determine if Aroclor 1268 and PAHs may have been transported offsite, the EPA collected soil and sediment samples from areas located offsite from the former Encycle/ASARCO facility.

On July 26, Bret Kendrick of EPA, Omar Valdez of TCEQ, and community representative Tammy Foster met to select locations where soil and sediment samples would be collected. Thirteen locations were identified for the collection of samples. On July 27, the EPA collected nine (9) soil samples and six (6) sediment samples including two (2) field duplicate samples. The coordinates for the sample locations are provided in Table 1. The locations where samples were collected are depicted on an aerial photograph in Figure 2. The sample locations are also depicted on a topographic map in Figure 3.

Two (2) sediment samples were collected from a bar ditch that receives storm water runoff from the former Encycle/ASARCO facility and Up River Road. In addition, three (3) sediment samples were collected from a storm water control system located along the northern boundary of the Dona Park neighborhood. One background sediment sample was collected from a bar ditch located near the intersection between Up River Road and Lantana Street.

Seven (7) soil samples were collected from areas outside the former Encycle/ASARCO facility boundary, located between the facility and the Dona Park neighborhood. These sample locations were away from the surface drainage pathway and used to determine if aerial deposition may be a viable transport mechanism for contaminants associated with the Galbestos material (Aroclor

1268 and PAHs). Two background soil samples were also collected during the sampling activities.

All samples were collected and handled in accordance with the Quality Assurance Project Plan and Sampling and Analysis Plan dated July 14, 2011. Samples were transported and hand delivered to the EPA Region 6 Laboratory located in Houston, Texas for analysis on July 29, 2011.

4 SAMPLING RESULTS

All soil and sediment samples collected were analyzed for semi-volatile organic compounds (SVOCs) and PCBs, except for one soil sample (sample SO-09). Sample SO-09 was analyzed for PCBs only since TCEQ collected and analyzed a soil sample for SVOCs from this location during a previous investigation. The analytical results are presented in Table 2 through Table 5. For comparison, the available Texas Risk Reduction Program Combined Tier 1 Protective Concentration Levels (TRRP PCLs) for residential soils are included in the tables. TRRP PCLs are not available for individual PCB congeners and are not included in these tables.

Sampling results for SVOCs detected multiple compounds, including PAHs. However, the concentration for all compounds detected were below their corresponding TRRP PCL for residential soils except for the compound benzo(a)pyrene. The compound benzo(a)pyrene was detected in four samples collected at three locations adjacent to the north side of Up River Road. The concentration of benzo(a)pyrene was less than the TRRP PCL for industrial soils. Based on the location of where these samples were collected, the TRRP PCL for industrial soils is the appropriate standard to use for determining any future actions. No trend in concentration or pattern in distribution in the compounds detected was observed to indicate that the former Encycle/ASARCO facility is the source of the SVOCs detected.

Sampling results for PCBs detected two congeners: Aroclor 1254 and 1260. Aroclor 1254 was detected in one sample and Aroclor 1260 was detected in three samples. All detections were at low concentrations. No TRRP PCL is available for individual PCB congeners; however, the concentrations detected in the samples were well below the EPA Regional Screening Level (RSL) of 220 micrograms per kilogram (µg/kg) for each of the congeners detected. No trend in contamination or pattern in the distribution compounds detected was observed to indicate that Encycle is the source of these PCB congeners detected. Aroclor 1268 which is associated with Galbestos materials used at the former Encycle/ASARCO facility was not detected in any of the samples collected.

FIGURES

FIGURE 1
Site Location Map

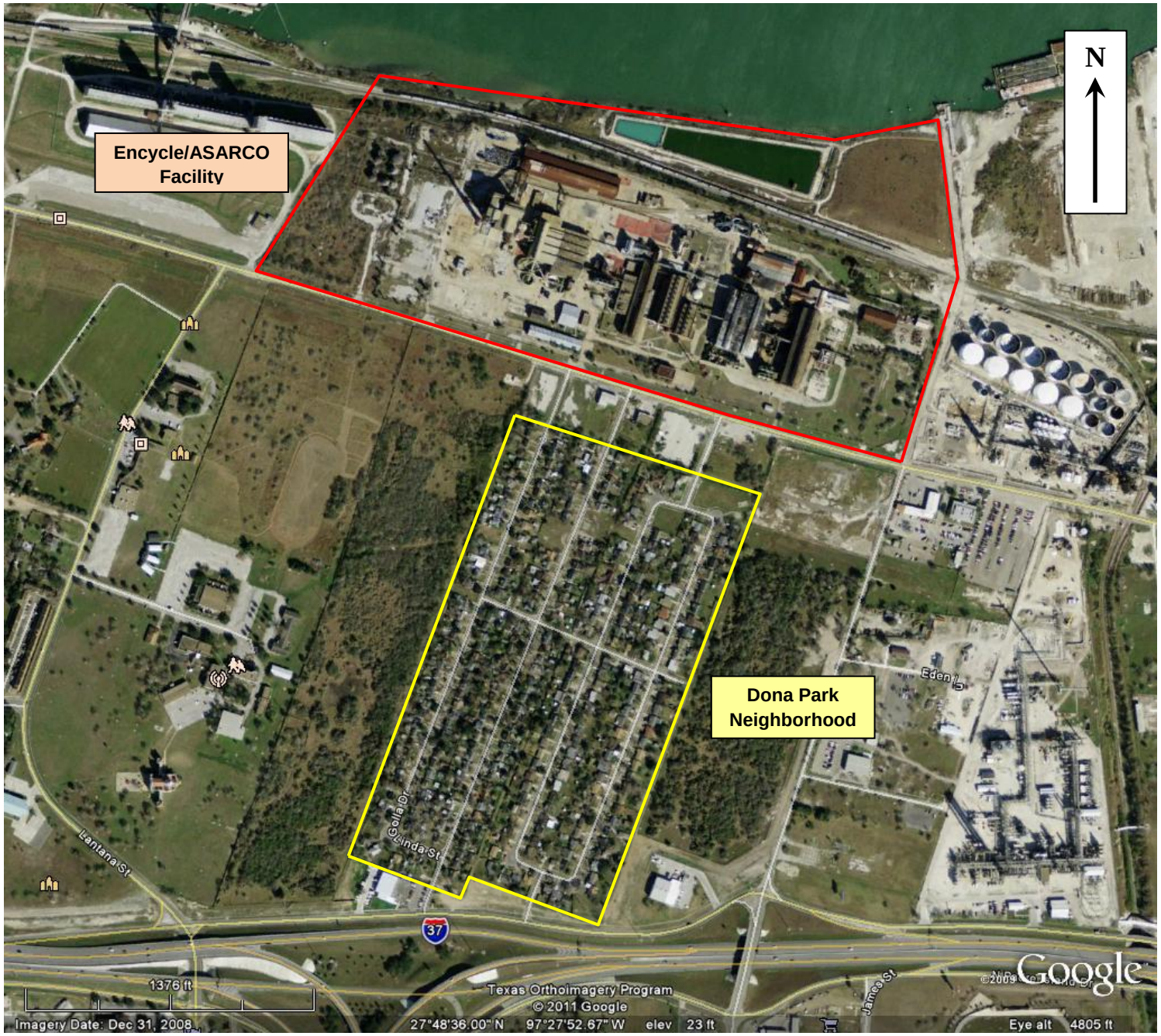


FIGURE 2
Sample Location Map

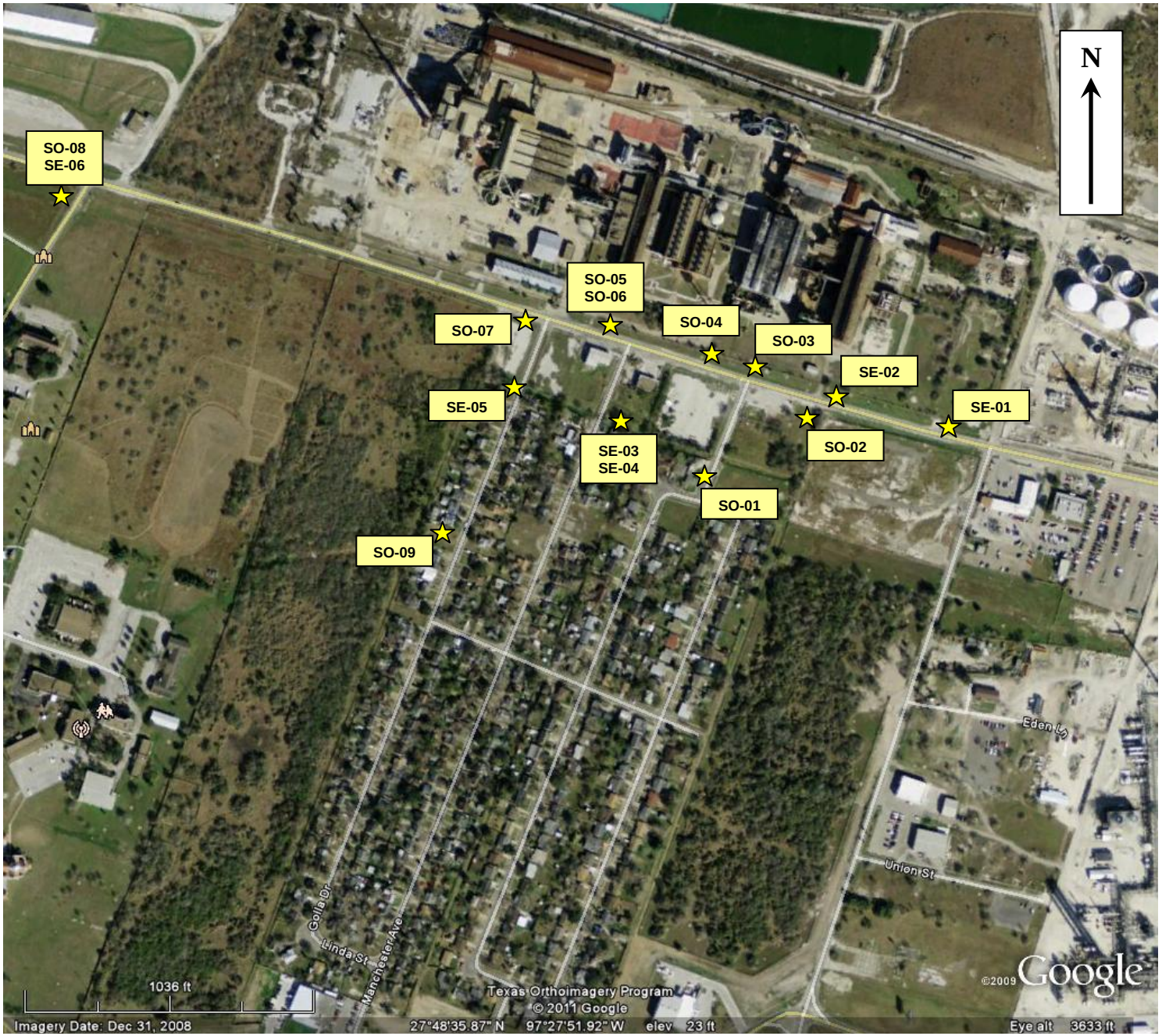
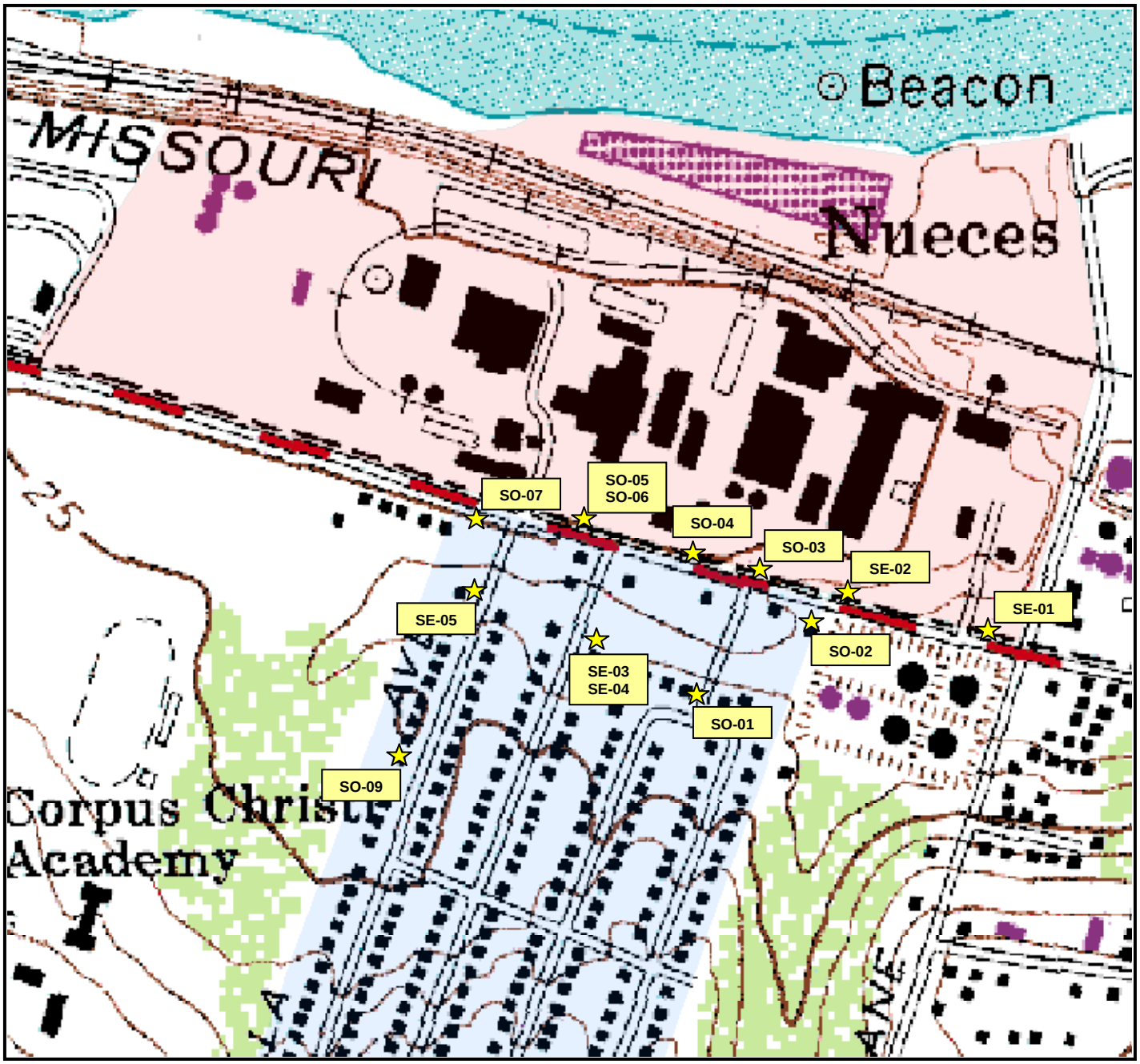


FIGURE 3
Topographic Map w/Sample Locations



TABLES

TABLE 1
Encycle/ASARCO Offsite
Soil/Sediment Sampling Coordinates

Time	Sample	Latitude	Longitude	EPE[1]	DOP[2]
0828	SO-01	N 27° 48’ 37.6”	W 97° 27’ 46.9”	13 ft	1.1
0838	SO-02	N 27° 48’ 39.6”	W 97° 27’ 42.6”	10 ft	1.0
0843	SE-01	N 27° 48’ 39.0”	W 97° 27’ 37.2”	11 ft	1.0
0846	SE-02	N 27° 48’ 40.2”	W 97° 27’ 41.5”	11 ft	1.2
0850	SO-03	N 27° 48’ 41.2”	W 97° 27’ 44.6”	13 ft	1.0
0855	SO-04	N 27° 48’ 41.7”	W 97° 27’ 46.5”	15 ft	1.1
0900	SO-05 SO-06	N 27° 48’ 42.8”	W 97° 27’ 50.9”	11 ft	0.9
0905	SE-03 SE-04	N 27° 48’ 39.2”	W 97° 27’ 50.1”	17 ft	1.5
0910	SE-05	N 27° 48’ 40.6”	W 97° 27’ 54.5”	13 ft	1.4
0915	SO-07	N 27° 48’ 43.0”	W 97° 27’ 54.3”	11 ft	0.9
0920	SO-08 SE-06	N 27° 48’ 47.2”	W 97° 28’ 12.5”	12 ft	1.0
0925	SO-09	N 27° 48’ 35.2”	W 97° 27’ 57.6”	15 ft	1.6

Coordinates measured on July 28, 2011

Map Datum – World Geodetic System 1984 (WGS 84)

1 Estimated Position Error

2 Dilution of Precision

TABLE 2
Encycle/ASARCO Offsite
Analytical Results for Soil Samples
Semi-Volatile Organic Compounds

Compound	TRRP PCL	Analytical Results (µg/kg)							
		SO-01	SO-02	SO-03	SO-04	SO-05	SO-06	SO-07	SO-08 Background
Benzo (b) fluoranthene	5700	483 J	140 J	163 J	396 J	432 J	1600 J	232 J	116 J
Benzo (g,h,i) perylene	18000	116 J	U	83.9 J	104 J	167 J	379 J	60.9 NJ	U
Benzo (k) fluoranthene	57000	404 J	181 J	167 J	245 J	332 J	1180 J	184 J	102 J
1,1'-Biphenyl	130000	U	U	U	U	U	63.8	U	U
Bis(2-ethylhexyl)phthalate	43000	U	U	1060 J	U	U	U	U	U
Carbazole	230000	64.3 J	U	U	56.0 J	74.5 J	481 J	51.7 J	U
Chrysene	560000	600 J	210 J	263 J	520 J	565 J	1650 J	322 J	144 J
Dibenzofuran	270000	U	U	U	U	U	215	U	U
Acetophenone	1800000	U	U	57.0	U	U	U	U	U
Dibenz (a,h) anthracene	550	236 J	93.9 J	127 J	229 J	272 J	623 J	162 J	57.7 J
Anthracene	1800000	83.3 J	U	U	71.0	109	615	78.4	U
Fluoranthene	2300000	690 J	208	195 J	351	408	1930	265	129
Fluorene	2300000	U	U	U	U	U	214	U	U
Indeno (1,2,3-cd) pyrene	5700	344 J	166 J	156 J	214 J	385 J	991 J	146 J	78.5 J
2-Methylnaphthalene	250000	158	56.7	164	279	413	500	341	63.3
Naphthalene	120000	71.7	U	53.9	93.1	141	476	111	U
Phenanthrene	1700000	384 J	141	169 J	320	408	2110	281	96.4
Pyrene	1700000	784 J	276 J	310 J	586 J	649 J	5210 J	424 J	184 J
2-Fluorophenol		512	417	563	405	489	493	475	471
Phenol		624	527	643	494	567	565	525	549
2-Chlorophenol	360000	552	448	603	432	532	525	516	514
1,2-Dichlorobenzene	390000	329	227	332	234	301	322	317	316
Nitrobenzene	34000	374	310	400	302	353	374	366	372
2-Fluorobiphenyl		468	406	469	390	437	460	414	427
2,4,6-Tribromophenol		925	832	916	759	836	829	743	807
Benzo (a) anthracene	5600	535 J	180 J	211 J	386 J	490 J	1650 J	272 J	114 J
Terphenyl		510	554	603	569	545	520	521	534
Benzo (a) pyrene	560	560 J	204 J	239 J	487 J	585 J	1680 J	311 J	149 J

NJ There is presumptive evidence that the compound is present; the compound is reported as a tentative identification. The reported value is an estimate.
J The identification of the compound is acceptable; the reported value is an estimate.
U Undetected
TRRP PCL Texas Risk Reduction Program Combined Tier 1 Protective Concentration Levels for residential soil given a 30-acre source area

TABLE 3
Encycle/ASARCO Offsite
Analytical Results for Sediment Samples
Semi-Volatile Organic Compounds

Compound	TRRP PCL	Analytical Results (µg/kg)					
		SE-01	SE-02	SE-03	SE-04	SE-05	SE-06 Background
Benzo (b) fluoranthene	5700	579	438 J	298 J	277 J	393 J	U
Benzo (g,h,i) perylene	18000	170 J	112 J	90.9 J	95.7 J	U	U
Benzo (k) fluoranthene	57000	369	244 J	163 J	192 J	184 J	U
1,1'-Biphenyl	130000	U	84.1	U	U	U	U
Bis(2-ethylhexyl)phthalate	43000	U	U	U	536 J	1020 J	U
Carbazole	230000	116 J	84.1 J	U	U	U	U
Chrysene	560000	764	636 J	381 J	390 J	336 J	U
Dibenz (a,h) anthracene	550	316 J	330 J	172 J	185 J	156 J	U
Anthracene	1800000	177	123	U	U	U	U
Fluoranthene	2300000	736 J	359	199	206	353	U
Indeno (1,2,3-cd) pyrene	5700	403	299 J	189 J	194 J	221 J	U
2-Methylnaphthalene	250000	806	612	195	210	U	U
3 &/or 4-Methylphenol		2130	451	U	U	123	U
Naphthalene	120000	253	200	61.7	68.2	U	U
Phenanthrene	1700000	717	467	223	241	173	U
Phenol	1600000	370	72.1 B	U	U	U	U
Pyrene	1700000	1030	622 J	336 J	340 J	455 J	61.4
2-Fluorophenol		640	512	429	482	434	461
Phenol		708	716	502	590	549	537
2-Chlorophenol	360000	641	558	447	533	492	509
1,2-Dichlorobenzene	390000	337	211	262	292	248	336
Nitrobenzene	34000	455	363	308	360	313	390
2-Fluorobiphenyl		515	442	390	446	403	430
2,4,6-Tribromophenol		926	1070	779	881	836	774
Benzo (a) anthracene	5600	692	524 J	250 J	262 J	304 J	U
Terphenyl		601	717	514	557	526	551
Benzo (a) pyrene	560	783	637 J	332 J	370 J	347 J	48.9 J

B Blank Related - the concentration found in the sample was less than 10X the conc. found in the associated extraction, digestion and/or analysis blank.
J The identification of the compound is acceptable; the reported value is an estimate.
U Undetected
TRRP PCL Texas Risk Reduction Program Combined Tier 1 Protective Concentration Levels for residential soil given a 30-acre source area

TABLE 4
Encycle/ASARCO Offsite
Analytical Results for Soil Samples
Polychlorinated Biphenyls

Compound	Analytical Results (µg/kg)								
	SO-01	SO-02	SO-03	SO-04	SO-05	SO-06	SO-07	SO-08 Background	SO-09 Background
Aroclor- 1254	U	U	U	U	U	U	U	U	U
Aroclor- 1260	52.7 NJ	U	22.3 B,J	68.9 J	U	U	U	U	U
Aroclor-1268	U	U	U	U	U	U	U	U	U

B Blank Related - the concentration found in the sample was less than 10X the conc. found in the associated extraction, digestion and/or analysis blank.
NJ There is presumptive evidence that the compound is present; the compound is reported as a tentative identification. The reported value is an estimate.
J The identification of the compound is acceptable; the reported value is an estimate.
U Undetected

TABLE 5
Encycle/ASARCO Offsite
Analytical Results for Sediment Samples
Polychlorinated Biphenyls

Compound	Analytical Results (µg/kg)					
	SE-01	SE-02	SE-03	SE-04	SE-05	SE-06 Background
Aroclor-1254	31.6 J	U	U	U	U	U
Aroclor-1260	U	U	U	U	U	U
Aroclor-1268	U	U	U	U	U	U

J The identification of the compound is acceptable; the reported value is an estimate.
U Undetected

APPENDICES

APPENDIX A

Photo-documentation

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 01 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-01 was collected (red flag) on Dona Drive.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 0908 hours **Direction:** South

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 02 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-02 was collected (red flag) near Up River Road.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 0925 hours **Direction:** East

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 03 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location in drainage ditch where SE-01 was collected near Up River Road where surface water runoff flows across Up River Road.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 0950 hours **Direction:** East

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 04 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SE-01 was collected.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 0951 hours **Direction:** West

PHOTOGRAPHIC DOCUMENTATION

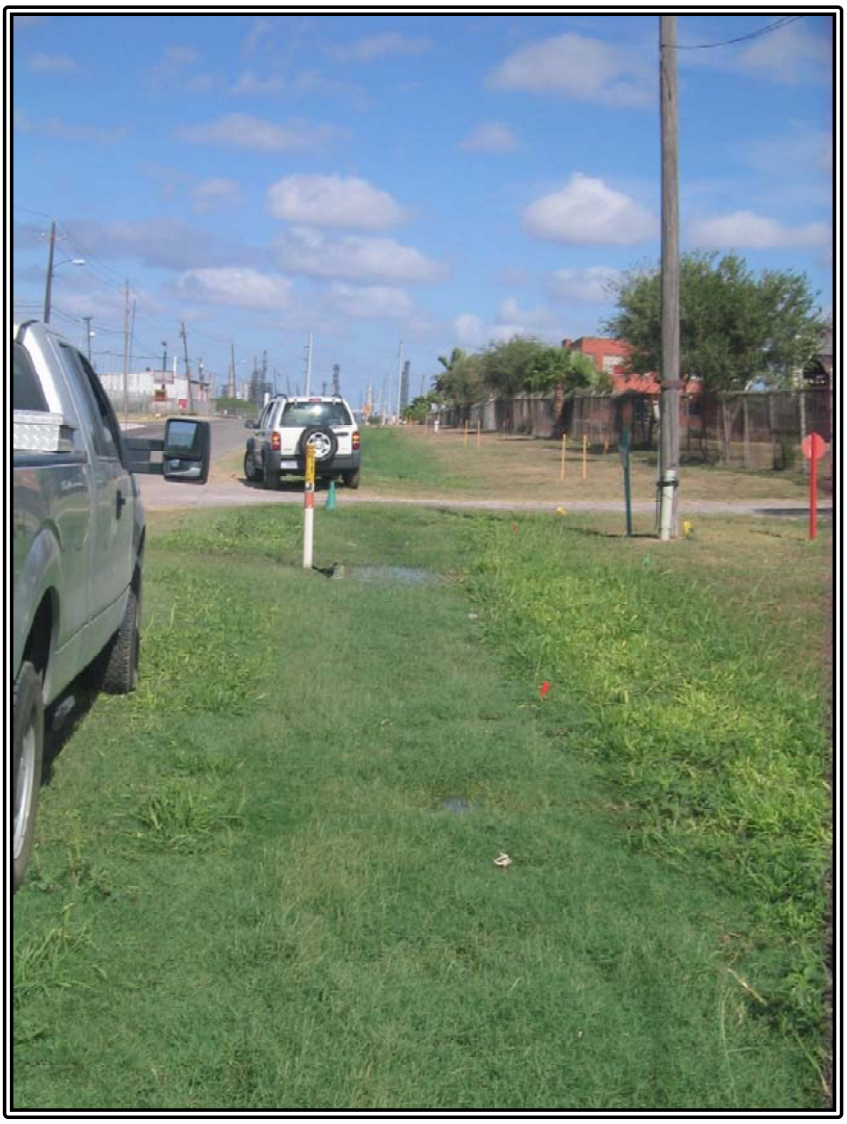


Photo No.: 05 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SE-02 (red flag) was collected (in drainage ditch along the north side of Up River Road.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1005 hours **Direction:** West

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 06 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-03 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1016 hours **Direction:** East

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 07 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-03 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1017 hours **Direction:** North

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 08 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-04 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1035 hours **Direction:** East

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 09 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-04 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1036 hours **Direction:** North

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 10 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-05 (red flag) and SO-06 (duplicate) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1115 hours **Direction:** West

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 11 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SE-03 (red flag) and SE-04 (duplicate) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1125 hours **Direction:** East

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 12 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SE-05 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1304 hours **Direction:** South

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 13 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-07 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1347 hours **Direction:** West

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 14 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of background sample locations where SO-08 and SE-06 (red flags) were located near Up River Road and Lantana Street.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1402 hours **Direction:** North

PHOTOGRAPHIC DOCUMENTATION

Photo No.: 15 **Photographer:** Bret Kendrick

Location: Encycle/ASARCO Offsite

Subject: View of sample location where SO-09 (red flag) was located.

City: Corpus Christi **County:** Nueces **State:** Texas

Date: July 27, 2011 **Time:** 1448 hours **Direction:** West

APPENDIX B

Final Analytical Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------Dona Park (Encycle - Asarco Offsite)

Sample Collection Date(s)-- 07/27/11

Contact---------- Bret Kendrick (6SF-RL)

Report Date---------- 09/02/11

Project #---------- 11SF224

Work Order(s)---------- 1107052

Analyses included in this report:

ABN 8270 Low Level
Solids, Dry Weight
PCB 8082 - Aroclor1268

Report Narrative

Method 8082:

All samples were quantitated using three separate curves for Aroclors 1254, 1260, and 1268. Because the QC samples were spiked with Aroclor 1268, all surrogate and QC results were reported from the 1268 curve. The surrogate DCB fails low in three samples using this curve. This surrogate passes criteria in the 1254 and 1260 curves so the samples were not re-extracted. The surrogate TCMX also fails low in two of the three samples (1107052-06 and 1107052-08). The reporting limits (RLs) for Aroclors not found in these samples were raised to ensure that non-detects are accurate. Absence or presence at the lower RL could not be verified. DCB fails high in 1107052-11 due to an interference. This surrogate also fails high in MS1.

The RL was raised for Aroclor 1254 in sample 1107052-01 and for Aroclor 1260 in sample 1107052-11 due to interferences. Absence or presence at the lower RL could not be verified.

All reported Aroclors were qualified as estimated or estimated with a tentative identification. The estimation is because the ratios of peaks present in the Aroclor do not match the ratios in the standard used. The additional tentative identification for some is because of interferences; it

Report Narrative (cont'd)

could not be confirmed if all peaks present in the standard were present in the sample. Aroclor 1260 is also qualified as blank related in sample 1107052-05 due to presence of this analyte in the associated preparation blank.

Aroclor 1268 fails low in the BS but was not reported in any sample.

Method 8270:

Carbazole, where reported, is qualified as estimated because of chromatography problems with calibration.

The surrogate 1,2-Dichlorobenzene-d4 fails low in sample 1107052-04. There were no associated targets. Phenol is qualified as blank related in this sample due to its presence in the associated preparation blank.

Three surrogates fail low in sample 1107052-11. The sample was re-extracted outside holding time. Both results are reported. All concentrations should be considered minimum values.

The surrogate 2,4,6-Tribromophenol fails high in sample 1107052-01, 1107052-05 and 1107052-11RE1. Anthracene, Fluoranthene, and Phenanthrene are qualified as estimated in these samples, if present, due to failure.

The reporting limit (RL) for Acetophenone was raised in sample 1107052-03 because absence or presence of the compound could not be determined at the lower RL.

The last two eluting internal standards failed QC limits in most samples. All associated analytes are qualified as estimated. This affects Pyrene, bis(2-Ethylhexyl)phthalate, Benzo(a)anthracene, Chrysene, Benzo (b) and (k) fluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene. Benzo(g,h,i)perylene is also qualified as a tentative identification in sample 1107052-12 due to RT shift and spectral match.

Four analytes fail low in B1H1001-BS1. One analyte fails low in B1H1901-BS1. The RLs were raised for those analytes when not found to ensure that non-detects are accurate. Absence or presence at the lower RL could not be verified.

Several analytes fail in the MS/MSD. Of those that fail the following are significant:

-Four analytes are qualified as rejected in the source sample due to low or no recovery (4-Chloroaniline, 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene, and 3-Nitroaniline
-Benzo(g,h,i)perylene and Fluoranthene are qualified as low biased in the source sample.
-The RL for 4-Nitroaniline was raised in the source to ensure non-detect is accurate.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dona Park (Encycle - Asarco Offsite) Project Number: 11SF224

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature Date

Please provide a reason for holding:

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
SO-01	1107052-01	Solid	7/27/11 9:20	07/29/11 13:53
SO-02	1107052-02	Solid	7/27/11 9:37	07/29/11 13:53
SE-01	1107052-03	Solid	7/27/11 9:55	07/29/11 13:53
SE-02	1107052-04	Solid	7/27/11 10:10	07/29/11 13:53
SO-03	1107052-05	Solid	7/27/11 10:28	07/29/11 13:53
SO-04	1107052-06	Solid	7/27/11 10:43	07/29/11 13:53
SO-05	1107052-07	Solid	7/27/11 11:19	07/29/11 13:53
SO-06	1107052-08	Solid	7/27/11 11:30	07/29/11 13:53
SE-03	1107052-09	Solid	7/27/11 11:40	07/29/11 13:53
SE-04	1107052-10	Solid	7/27/11 11:55	07/29/11 13:53
SE-05	1107052-11	Solid	7/27/11 13:13	07/29/11 13:53
SO-07	1107052-12	Solid	7/27/11 13:53	07/29/11 13:53
SO-08	1107052-13	Solid	7/27/11 14:09	07/29/11 13:53
SE-06	1107052-14	Solid	7/27/11 14:15	07/29/11 13:53
SO-09	1107052-15	Solid	7/27/11 14:45	07/29/11 13:53

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-01 **Station ID: SO-01**

Batch: B1H1001 Date Collected: 07/27/11
Sample Type: Solid Sample Weight: 10.031 g Sample Qualifiers:
%Solids: 94.58

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	512		64.8	38-101	08/10/11	08/18/11
Surr: Phenol-d5	624		78.9	42-105	"	"
Surr: 2-Chlorophenol-d4	552		69.9	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	329		62.4	37-100	"	"
Surr: Nitrobenzene-d5	374		71.0	42-108	"	"
Surr: 2-Fluorobiphenyl	468		88.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	925		117 #	55-115	"	"
Surr: Terphenyl-d14	510		96.8	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		52.7	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		52.7	"	"	"
Acetophenone (98-86-2)	U		52.7	"	"	"
Anthracene (120-12-7)	**83.3**	**J**	52.7	"	"	"
Atrazine (1912-24-9)	U		52.7	"	"	"
Benzaldehyde (100-52-7)	U		105	"	"	"
Benzoic acid (65-85-0)	U		527	"	"	"
Benzo (a) anthracene (56-55-3)	**535**	**J**	52.7	"	"	"
Benzo (a) pyrene (50-32-8)	**560**	**J**	21.1	"	"	"
Benzo (b) fluoranthene (205-99-2)	**483**	**J**	52.7	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**116**	**J**	52.7	"	"	"
Benzo (k) fluoranthene (207-08-9)	**404**	**J**	52.7	"	"	"
Benzyl alcohol (100-51-6)	U		52.7	"	"	"
1,1'-Biphenyl (92-52-4)	U		52.7	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		52.7	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		52.7	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		52.7	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		527	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		52.7	"	"	"
Butyl benzyl phthalate (85-68-7)	U		527	"	"	"
Carbazole (86-74-8)	**64.3**	**J**	52.7	"	"	"
Caprolactam (105-60-2)	U		105	"	"	"
4-Chloroaniline (106-47-8)	U	RL	158	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-01 **Station ID: SO-01**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.031 g
%Solids: 94.58

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chloronaphthalene (91-58-7)	U		52.7	1	08/10/11	08/18/11
2-Chlorophenol (95-57-8)	U		52.7	"	"	"
4-Chlorophenyl phenyl ether (7005-72-3)	U		52.7	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		52.7	"	"	"
Chrysene (218-01-9)	**600**	**J**	52.7	"	"	"
Dibenzofuran (132-64-9)	U		52.7	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**236**	**J**	52.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		52.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		52.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		52.7	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	105	"	"	"
2,4-Dichlorophenol (120-83-2)	U		52.7	"	"	"
Diethyl phthalate (84-66-2)	U		527	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	422	"	"	"
Dimethyl phthalate (131-11-3)	U		527	"	"	"
2,4-Dinitrophenol (51-28-5)	U		527	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		105	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		105	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		527	"	"	"
Di-n-butyl phthalate (84-74-2)	U		527	"	"	"
Di-n-octyl phthalate (117-84-0)	U		527	"	"	"
Fluoranthene (206-44-0)	**690**	**J**	52.7	"	"	"
Fluorene (86-73-7)	U		52.7	"	"	"
Hexachlorobenzene (118-74-1)	U		52.7	"	"	"
Hexachlorobutadiene (87-68-3)	U		52.7	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		527	"	"	"
Hexachloroethane (67-72-1)	U		52.7	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**344**	**J**	52.7	"	"	"
Isophorone (78-59-1)	U		52.7	"	"	"
2-Methylnaphthalene (91-57-6)	**158**		52.7	"	"	"
2-Methylphenol (95-48-7)	U		52.7	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		52.7	"	"	"
Naphthalene (91-20-3)	**71.7**		52.7	"	"	"
2-Nitroaniline (88-74-4)	U		105	"	"	"
3-Nitroaniline (99-09-2)	U		105	"	"	"
4-Nitroaniline (100-01-6)	U		105	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-01 **Station ID: SO-01**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.031 g
%Solids: 94.58

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		52.7	1	08/10/11	08/18/11
2-Nitrophenol (88-75-5)	U		52.7	"	"	"
4-Nitrophenol (100-02-7)	U		527	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		52.7	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		52.7	"	"	"
Pentachlorophenol (87-86-5)	U		105	"	"	"
Phenanthrene (85-01-8)	**384**	**J**	52.7	"	"	"
Phenol (108-95-2)	U		52.7	"	"	"
Pyrene (129-00-0)	**784**	**J**	52.7	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		52.7	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		52.7	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		52.7	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-01 **Station ID: SO-01**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.273 g
%Solids: 94.58

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	23.0		89.5	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	27.5		107	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.6	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		41.2	"	"	"
Aroclor-1232 (11141-16-5)	U		20.6	"	"	"
Aroclor-1242 (53469-21-9)	U		20.6	"	"	"
Aroclor-1248 (12672-29-6)	U		20.6	"	"	"
Aroclor-1254 (11097-69-1)	U	RL	51.5	"	"	"
Aroclor-1260 (11096-82-5)	**52.7**	**NJ**	20.6	"	"	"
Aroclor-1268 (11100-14-4)	U		20.6	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-02 **Station ID: SO-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.065 g
%Solids: 96.30

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	417		53.9	38-101	08/10/11	08/18/11
Surr: Phenol-d5	527		68.1	42-105	"	"
Surr: 2-Chlorophenol-d4	448		57.9	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	227		44.0	37-100	"	"
Surr: Nitrobenzene-d5	310		60.0	42-108	"	"
Surr: 2-Fluorobiphenyl	406		78.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	832		107	55-115	"	"
Surr: Terphenyl-d14	554		107	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		51.6	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		51.6	"	"	"
Acetophenone (98-86-2)	U		51.6	"	"	"
Anthracene (120-12-7)	U		51.6	"	"	"
Atrazine (1912-24-9)	U		51.6	"	"	"
Benzaldehyde (100-52-7)	U		103	"	"	"
Benzoic acid (65-85-0)	U		516	"	"	"
Benzo (a) anthracene (56-55-3)	**180**	**J**	51.6	"	"	"
Benzo (a) pyrene (50-32-8)	**204**	**J**	20.6	"	"	"
Benzo (b) fluoranthene (205-99-2)	**140**	**J**	51.6	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	206	"	"	"
Benzo (k) fluoranthene (207-08-9)	**181**	**J**	51.6	"	"	"
Benzyl alcohol (100-51-6)	U		51.6	"	"	"
1,1'-Biphenyl (92-52-4)	U		51.6	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		51.6	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		51.6	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		51.6	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		516	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		51.6	"	"	"
Butyl benzyl phthalate (85-68-7)	U		516	"	"	"
Carbazole (86-74-8)	U		51.6	"	"	"
Caprolactam (105-60-2)	U		103	"	"	"
4-Chloroaniline (106-47-8)	U	RL	155	"	"	"
2-Chloronaphthalene (91-58-7)	U		51.6	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-02 **Station ID: SO-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.065 g
%Solids: 96.30

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		51.6	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		51.6	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		51.6	"	"	"
Chrysene (218-01-9)	**210**	**J**	51.6	"	"	"
Dibenzofuran (132-64-9)	U		51.6	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**93.9**	**J**	51.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		51.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		51.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		51.6	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	103	"	"	"
2,4-Dichlorophenol (120-83-2)	U		51.6	"	"	"
Diethyl phthalate (84-66-2)	U		516	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	413	"	"	"
Dimethyl phthalate (131-11-3)	U		516	"	"	"
2,4-Dinitrophenol (51-28-5)	U		516	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		103	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		103	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		516	"	"	"
Di-n-butyl phthalate (84-74-2)	U		516	"	"	"
Di-n-octyl phthalate (117-84-0)	U		516	"	"	"
Fluoranthene (206-44-0)	**208**		51.6	"	"	"
Fluorene (86-73-7)	U		51.6	"	"	"
Hexachlorobenzene (118-74-1)	U		51.6	"	"	"
Hexachlorobutadiene (87-68-3)	U		51.6	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		516	"	"	"
Hexachloroethane (67-72-1)	U		51.6	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**166**	**J**	51.6	"	"	"
Isophorone (78-59-1)	U		51.6	"	"	"
2-Methylnaphthalene (91-57-6)	**56.7**		51.6	"	"	"
2-Methylphenol (95-48-7)	U		51.6	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		51.6	"	"	"
Naphthalene (91-20-3)	U		51.6	"	"	"
2-Nitroaniline (88-74-4)	U		103	"	"	"
3-Nitroaniline (99-09-2)	U		103	"	"	"
4-Nitroaniline (100-01-6)	U		103	"	"	"
Nitrobenzene (98-95-3)	U		51.6	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-02 **Station ID: SO-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.065 g
%Solids: 96.30

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		51.6	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		516	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		51.6	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		51.6	"	"	"
Pentachlorophenol (87-86-5)	U		103	"	"	"
Phenanthrene (85-01-8)	**141**		51.6	"	"	"
Phenol (108-95-2)	U		51.6	"	"	"
Pyrene (129-00-0)	**276**	**J**	51.6	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		51.6	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		51.6	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		51.6	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-02 **Station ID: SO-02**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.693 g
%Solids: 96.30

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	19.5		80.3	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	20.7		85.2	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.4	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		38.8	"	"	"
Aroclor-1232 (11141-16-5)	U		19.4	"	"	"
Aroclor-1242 (53469-21-9)	U		19.4	"	"	"
Aroclor-1248 (12672-29-6)	U		19.4	"	"	"
Aroclor-1254 (11097-69-1)	U		19.4	"	"	"
Aroclor-1260 (11096-82-5)	U		19.4	"	"	"
Aroclor-1268 (11100-14-4)	U		19.4	"	"	"

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Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-03 **Station ID: SE-01**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.94 g
%Solids: 68.07

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	640		75.2	38-101	08/10/11	08/18/11
Surr: Phenol-d5	708		83.2	42-105	"	"
Surr: 2-Chlorophenol-d4	641		75.3	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	337		59.4	37-100	"	"
Surr: Nitrobenzene-d5	455		80.2	42-108	"	"
Surr: 2-Fluorobiphenyl	515		90.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	926		109	55-115	"	"
Surr: Terphenyl-d14	601		106	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		56.8	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		56.8	"	"	"
Acetophenone (98-86-2)	U	RL	79.5	"	"	"
Anthracene (120-12-7)	**177**		56.8	"	"	"
Atrazine (1912-24-9)	U		56.8	"	"	"
Benzaldehyde (100-52-7)	U		114	"	"	"
Benzoic acid (65-85-0)	U		568	"	"	"
Benzo (a) anthracene (56-55-3)	**692**		56.8	"	"	"
Benzo (a) pyrene (50-32-8)	**783**		114	5	"	08/23/11
Benzo (b) fluoranthene (205-99-2)	**579**		284	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**170**	**L**	170	"	"	"
Benzo (k) fluoranthene (207-08-9)	**369**		284	"	"	"
Benzyl alcohol (100-51-6)	U		56.8	1	"	08/18/11
1,1'-Biphenyl (92-52-4)	U		56.8	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		56.8	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		56.8	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		56.8	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		568	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		56.8	"	"	"
Butyl benzyl phthalate (85-68-7)	U		568	"	"	"
Carbazole (86-74-8)	**116**	**J**	56.8	"	"	"
Caprolactam (105-60-2)	U		114	"	"	"
4-Chloroaniline (106-47-8)	U	R	56.8	"	"	"
2-Chloronaphthalene (91-58-7)	U		56.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-03 **Station ID: SE-01**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.94 g
%Solids: 68.07

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		56.8	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		56.8	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		56.8	"	"	"
Chrysene (218-01-9)	**764**		56.8	"	"	"
Dibenzofuran (132-64-9)	U		56.8	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**316**	**J**	56.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		56.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		56.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		56.8	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	R	56.8	"	"	"
2,4-Dichlorophenol (120-83-2)	U		56.8	"	"	"
Diethyl phthalate (84-66-2)	U		568	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	454	"	"	"
Dimethyl phthalate (131-11-3)	U		568	"	"	"
2,4-Dinitrophenol (51-28-5)	U		568	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		114	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		114	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		568	"	"	"
Di-n-butyl phthalate (84-74-2)	U		568	"	"	"
Di-n-octyl phthalate (117-84-0)	U		568	"	"	"
Fluoranthene (206-44-0)	**736**	**L**	56.8	"	"	"
Fluorene (86-73-7)	U		56.8	"	"	"
Hexachlorobenzene (118-74-1)	U		56.8	"	"	"
Hexachlorobutadiene (87-68-3)	U		56.8	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	568	"	"	"
Hexachloroethane (67-72-1)	U		56.8	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**403**		284	5	"	08/23/11
Isophorone (78-59-1)	U		56.8	1	"	08/18/11
2-Methylnaphthalene (91-57-6)	**806**		56.8	"	"	"
2-Methylphenol (95-48-7)	U		56.8	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**2,130**		56.8	"	"	"
Naphthalene (91-20-3)	**253**		56.8	"	"	"
2-Nitroaniline (88-74-4)	U		114	"	"	"
3-Nitroaniline (99-09-2)	U	R	114	"	"	"
4-Nitroaniline (100-01-6)	U	RL	454	"	"	"
Nitrobenzene (98-95-3)	U		56.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-03 **Station ID: SE-01**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.94 g
%Solids: 68.07

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		56.8	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		568	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		56.8	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		56.8	"	"	"
Pentachlorophenol (87-86-5)	U		114	"	"	"
Phenanthrene (85-01-8)	**717**		56.8	"	"	"
Phenol (108-95-2)	**370**		56.8	"	"	"
Pyrene (129-00-0)	**1,030**		56.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		56.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		56.8	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		56.8	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-03 **Station ID: SE-01**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.201 g
%Solids: 68.07

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	28.0		93.2	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	29.1		96.5	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		24.1	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		48.2	"	"	"
Aroclor-1232 (11141-16-5)	U		24.1	"	"	"
Aroclor-1242 (53469-21-9)	U		24.1	"	"	"
Aroclor-1248 (12672-29-6)	U		24.1	"	"	"
Aroclor-1254 (11097-69-1)	**31.6**	**J**	24.1	"	"	"
Aroclor-1260 (11096-82-5)	U		24.1	"	"	"
Aroclor-1268 (11100-14-4)	U		24.1	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-04 **Station ID: SE-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.425 g
%Solids: 60.26

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	512		51.1	38-101	08/10/11	08/18/11
Surr: Phenol-d5	716		71.5	42-105	"	"
Surr: 2-Chlorophenol-d4	558		55.7	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	211		31.6 #	37-100	"	"
Surr: Nitrobenzene-d5	363		54.4	42-108	"	"
Surr: 2-Fluorobiphenyl	442		66.2	51-103	"	"
Surr: 2,4,6-Tribromophenol	1,070		107	55-115	"	"
Surr: Terphenyl-d14	717		107	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		66.8	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		66.8	"	"	"
Acetophenone (98-86-2)	U		66.8	"	"	"
Anthracene (120-12-7)	**123**		66.8	"	"	"
Atrazine (1912-24-9)	U		66.8	"	"	"
Benzaldehyde (100-52-7)	U		134	"	"	"
Benzoic acid (65-85-0)	U		668	"	"	"
Benzo (a) anthracene (56-55-3)	**524**	**J**	66.8	"	"	"
Benzo (a) pyrene (50-32-8)	**637**	**J**	26.7	"	"	"
Benzo (b) fluoranthene (205-99-2)	**438**	**J**	66.8	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**112**	**J**	66.8	"	"	"
Benzo (k) fluoranthene (207-08-9)	**244**	**J**	66.8	"	"	"
Benzyl alcohol (100-51-6)	U		66.8	"	"	"
1,1'-Biphenyl (92-52-4)	**84.1**		66.8	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		66.8	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		66.8	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		66.8	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		668	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		66.8	"	"	"
Butyl benzyl phthalate (85-68-7)	U		668	"	"	"
Carbazole (86-74-8)	**84.1**	**J**	66.8	"	"	"
Caprolactam (105-60-2)	U		134	"	"	"
4-Chloroaniline (106-47-8)	U	RL	200	"	"	"
2-Chloronaphthalene (91-58-7)	U		66.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-04 **Station ID: SE-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.425 g
%Solids: 60.26

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		66.8	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		66.8	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		66.8	"	"	"
Chrysene (218-01-9)	**636**	**J**	66.8	"	"	"
Dibenzofuran (132-64-9)	U		66.8	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**330**	**J**	66.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		66.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		66.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		66.8	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	134	"	"	"
2,4-Dichlorophenol (120-83-2)	U		66.8	"	"	"
Diethyl phthalate (84-66-2)	U		668	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	534	"	"	"
Dimethyl phthalate (131-11-3)	U		668	"	"	"
2,4-Dinitrophenol (51-28-5)	U		668	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		134	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		134	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		668	"	"	"
Di-n-butyl phthalate (84-74-2)	U		668	"	"	"
Di-n-octyl phthalate (117-84-0)	U		668	"	"	"
Fluoranthene (206-44-0)	**359**		66.8	"	"	"
Fluorene (86-73-7)	U		66.8	"	"	"
Hexachlorobenzene (118-74-1)	U		66.8	"	"	"
Hexachlorobutadiene (87-68-3)	U		66.8	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		668	"	"	"
Hexachloroethane (67-72-1)	U		66.8	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**299**	**J**	66.8	"	"	"
Isophorone (78-59-1)	U		66.8	"	"	"
2-Methylnaphthalene (91-57-6)	**612**		66.8	"	"	"
2-Methylphenol (95-48-7)	U		66.8	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**451**		66.8	"	"	"
Naphthalene (91-20-3)	**200**		66.8	"	"	"
2-Nitroaniline (88-74-4)	U		134	"	"	"
3-Nitroaniline (99-09-2)	U		134	"	"	"
4-Nitroaniline (100-01-6)	U		134	"	"	"
Nitrobenzene (98-95-3)	U		66.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-04 **Station ID: SE-02**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.425 g
%Solids: 60.26

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		66.8	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		668	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		66.8	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		66.8	"	"	"
Pentachlorophenol (87-86-5)	U		134	"	"	"
Phenanthrene (85-01-8)	**467**		66.8	"	"	"
Phenol (108-95-2)	**72.1**	**B**	66.8	"	"	"
Pyrene (129-00-0)	**622**	**J**	66.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		66.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		66.8	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		66.8	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-04 **Station ID: SE-02**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.108 g
%Solids: 60.26

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	28.2		82.3	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	27.6		80.4	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		27.4	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		54.8	"	"	"
Aroclor-1232 (11141-16-5)	U		27.4	"	"	"
Aroclor-1242 (53469-21-9)	U		27.4	"	"	"
Aroclor-1248 (12672-29-6)	U		27.4	"	"	"
Aroclor-1254 (11097-69-1)	U		27.4	"	"	"
Aroclor-1260 (11096-82-5)	U		27.4	"	"	"
Aroclor-1268 (11100-14-4)	U		27.4	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-05 **Station ID: SO-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.452 g
%Solids: 92.32

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	563		72.4	38-101	08/10/11	08/18/11
Surr: Phenol-d5	643		82.7	42-105	"	"
Surr: 2-Chlorophenol-d4	603		77.6	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	332		64.0	37-100	"	"
Surr: Nitrobenzene-d5	400		77.2	42-108	"	"
Surr: 2-Fluorobiphenyl	469		90.6	51-103	"	"
Surr: 2,4,6-Tribromophenol	916		118 #	55-115	"	"
Surr: Terphenyl-d14	603		116	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		51.8	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		51.8	"	"	"
Acetophenone (98-86-2)	**57.0**		51.8	"	"	"
Anthracene (120-12-7)	U		51.8	"	"	"
Atrazine (1912-24-9)	U		51.8	"	"	"
Benzaldehyde (100-52-7)	U		104	"	"	"
Benzoic acid (65-85-0)	U		518	"	"	"
Benzo (a) anthracene (56-55-3)	**211**	**J**	51.8	"	"	"
Benzo (a) pyrene (50-32-8)	**239**	**J**	20.7	"	"	"
Benzo (b) fluoranthene (205-99-2)	**163**	**J**	51.8	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**83.9**	**J**	51.8	"	"	"
Benzo (k) fluoranthene (207-08-9)	**167**	**J**	51.8	"	"	"
Benzyl alcohol (100-51-6)	U		51.8	"	"	"
1,1'-Biphenyl (92-52-4)	U		51.8	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		51.8	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		51.8	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		51.8	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**1,060**	**J**	518	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		51.8	"	"	"
Butyl benzyl phthalate (85-68-7)	U		518	"	"	"
Carbazole (86-74-8)	U		51.8	"	"	"
Caprolactam (105-60-2)	U		104	"	"	"
4-Chloroaniline (106-47-8)	U	RL	155	"	"	"
2-Chloronaphthalene (91-58-7)	U		51.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-05 **Station ID: SO-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.452 g
%Solids: 92.32

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		51.8	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		51.8	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		51.8	"	"	"
Chrysene (218-01-9)	**263**	**J**	51.8	"	"	"
Dibenzofuran (132-64-9)	U		51.8	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**127**	**J**	51.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		51.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		51.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		51.8	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	104	"	"	"
2,4-Dichlorophenol (120-83-2)	U		51.8	"	"	"
Diethyl phthalate (84-66-2)	U		518	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	415	"	"	"
Dimethyl phthalate (131-11-3)	U		518	"	"	"
2,4-Dinitrophenol (51-28-5)	U		518	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		104	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		104	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		518	"	"	"
Di-n-butyl phthalate (84-74-2)	U		518	"	"	"
Di-n-octyl phthalate (117-84-0)	U		518	"	"	"
Fluoranthene (206-44-0)	**195**	**J**	51.8	"	"	"
Fluorene (86-73-7)	U		51.8	"	"	"
Hexachlorobenzene (118-74-1)	U		51.8	"	"	"
Hexachlorobutadiene (87-68-3)	U		51.8	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		518	"	"	"
Hexachloroethane (67-72-1)	U		51.8	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**156**	**J**	51.8	"	"	"
Isophorone (78-59-1)	U		51.8	"	"	"
2-Methylnaphthalene (91-57-6)	**164**		51.8	"	"	"
2-Methylphenol (95-48-7)	U		51.8	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		51.8	"	"	"
Naphthalene (91-20-3)	**53.9**		51.8	"	"	"
2-Nitroaniline (88-74-4)	U		104	"	"	"
3-Nitroaniline (99-09-2)	U		104	"	"	"
4-Nitroaniline (100-01-6)	U		104	"	"	"
Nitrobenzene (98-95-3)	U		51.8	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-05 **Station ID: SO-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.452 g
%Solids: 92.32

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		51.8	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		518	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		51.8	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		51.8	"	"	"
Pentachlorophenol (87-86-5)	U		104	"	"	"
Phenanthrene (85-01-8)	**169**	**J**	51.8	"	"	"
Phenol (108-95-2)	U		51.8	"	"	"
Pyrene (129-00-0)	**310**	**J**	51.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		51.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		51.8	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		51.8	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-05 **Station ID: SO-03**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.968 g
%Solids: 92.32

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	11.9		48.4	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	11.8		48.0 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.8	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		39.5	"	"	"
Aroclor-1232 (11141-16-5)	U		19.8	"	"	"
Aroclor-1242 (53469-21-9)	U		19.8	"	"	"
Aroclor-1248 (12672-29-6)	U		19.8	"	"	"
Aroclor-1254 (11097-69-1)	U		19.8	"	"	"
Aroclor-1260 (11096-82-5)	**22.3**	**B, J**	19.8	"	"	"
Aroclor-1268 (11100-14-4)	U		19.8	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-06 **Station ID: SO-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.372 g
%Solids: 96.36

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	405		54.0	38-101	08/10/11	08/18/11
Surr: Phenol-d5	494		65.9	42-105	"	"
Surr: 2-Chlorophenol-d4	432		57.6	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	234		46.8	37-100	"	"
Surr: Nitrobenzene-d5	302		60.4	42-108	"	"
Surr: 2-Fluorobiphenyl	390		78.0	51-103	"	"
Surr: 2,4,6-Tribromophenol	759		101	55-115	"	"
Surr: Terphenyl-d14	569		114	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		50.0	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		50.0	"	"	"
Acetophenone (98-86-2)	U		50.0	"	"	"
Anthracene (120-12-7)	**71.0**		50.0	"	"	"
Atrazine (1912-24-9)	U		50.0	"	"	"
Benzaldehyde (100-52-7)	U		100	"	"	"
Benzoic acid (65-85-0)	U		500	"	"	"
Benzo (a) anthracene (56-55-3)	**386**	**J**	50.0	"	"	"
Benzo (a) pyrene (50-32-8)	**487**	**J**	20.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	**396**	**J**	50.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**104**	**J**	50.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	**245**	**J**	50.0	"	"	"
Benzyl alcohol (100-51-6)	U		50.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		50.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		50.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		50.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		50.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		500	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		50.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		500	"	"	"
Carbazole (86-74-8)	**56.0**	**J**	50.0	"	"	"
Caprolactam (105-60-2)	U		100	"	"	"
4-Chloroaniline (106-47-8)	U	RL	150	"	"	"
2-Chloronaphthalene (91-58-7)	U		50.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-06 **Station ID: SO-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.372 g
%Solids: 96.36

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		50.0	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		50.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		50.0	"	"	"
Chrysene (218-01-9)	**520**	**J**	50.0	"	"	"
Dibenzofuran (132-64-9)	U		50.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**229**	**J**	50.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		50.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		50.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		50.0	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	100	"	"	"
2,4-Dichlorophenol (120-83-2)	U		50.0	"	"	"
Diethyl phthalate (84-66-2)	U		500	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	400	"	"	"
Dimethyl phthalate (131-11-3)	U		500	"	"	"
2,4-Dinitrophenol (51-28-5)	U		500	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		100	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		100	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		500	"	"	"
Di-n-butyl phthalate (84-74-2)	U		500	"	"	"
Di-n-octyl phthalate (117-84-0)	U		500	"	"	"
Fluoranthene (206-44-0)	**351**		50.0	"	"	"
Fluorene (86-73-7)	U		50.0	"	"	"
Hexachlorobenzene (118-74-1)	U		50.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		50.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		500	"	"	"
Hexachloroethane (67-72-1)	U		50.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**214**	**J**	50.0	"	"	"
Isophorone (78-59-1)	U		50.0	"	"	"
2-Methylnaphthalene (91-57-6)	**279**		50.0	"	"	"
2-Methylphenol (95-48-7)	U		50.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		50.0	"	"	"
Naphthalene (91-20-3)	**93.1**		50.0	"	"	"
2-Nitroaniline (88-74-4)	U		100	"	"	"
3-Nitroaniline (99-09-2)	U		100	"	"	"
4-Nitroaniline (100-01-6)	U		100	"	"	"
Nitrobenzene (98-95-3)	U		50.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-06 **Station ID: SO-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.372 g
%Solids: 96.36

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		50.0	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		500	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		50.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		50.0	"	"	"
Pentachlorophenol (87-86-5)	U		100	"	"	"
Phenanthrene (85-01-8)	**320**		50.0	"	"	"
Phenol (108-95-2)	U		50.0	"	"	"
Pyrene (129-00-0)	**586**	**J**	50.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		50.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		50.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		50.0	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-06 **Station ID: SO-04**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.465 g
%Solids: 96.36

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	10.0		40.4 #	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	11.9		47.8 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U	RL	39.7	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U	RL	79.3	"	"	"
Aroclor-1232 (11141-16-5)	U	RL	39.7	"	"	"
Aroclor-1242 (53469-21-9)	U	RL	39.7	"	"	"
Aroclor-1248 (12672-29-6)	U	RL	39.7	"	"	"
Aroclor-1254 (11097-69-1)	U	RL	39.7	"	"	"
Aroclor-1260 (11096-82-5)	**68.9**	**J**	19.8	"	"	"
Aroclor-1268 (11100-14-4)	U	RL	39.7	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-07 **Station ID: SO-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.294 g
%Solids: 97.82

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	489		65.6	38-101	08/10/11	08/18/11
Surr: Phenol-d5	567		76.1	42-105	"	"
Surr: 2-Chlorophenol-d4	523		70.3	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	301		60.6	37-100	"	"
Surr: Nitrobenzene-d5	353		71.0	42-108	"	"
Surr: 2-Fluorobiphenyl	437		88.0	51-103	"	"
Surr: 2,4,6-Tribromophenol	836		112	55-115	"	"
Surr: Terphenyl-d14	545		110	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		49.7	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		49.7	"	"	"
Acetophenone (98-86-2)	U		49.7	"	"	"
Anthracene (120-12-7)	**109**		49.7	"	"	"
Atrazine (1912-24-9)	U		49.7	"	"	"
Benzaldehyde (100-52-7)	U		99.3	"	"	"
Benzoic acid (65-85-0)	U		497	"	"	"
Benzo (a) anthracene (56-55-3)	**490**	**J**	49.7	"	"	"
Benzo (a) pyrene (50-32-8)	**585**	**J**	19.9	"	"	"
Benzo (b) fluoranthene (205-99-2)	**432**	**J**	49.7	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**167**	**J**	49.7	"	"	"
Benzo (k) fluoranthene (207-08-9)	**332**	**J**	49.7	"	"	"
Benzyl alcohol (100-51-6)	U		49.7	"	"	"
1,1'-Biphenyl (92-52-4)	U		49.7	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		49.7	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		49.7	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		49.7	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		497	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		49.7	"	"	"
Butyl benzyl phthalate (85-68-7)	U		497	"	"	"
Carbazole (86-74-8)	**74.5**	**J**	49.7	"	"	"
Caprolactam (105-60-2)	U		99.3	"	"	"
4-Chloroaniline (106-47-8)	U	RL	149	"	"	"
2-Chloronaphthalene (91-58-7)	U		49.7	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-07 **Station ID: SO-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.294 g
%Solids: 97.82

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		49.7	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		49.7	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		49.7	"	"	"
Chrysene (218-01-9)	**565**	**J**	49.7	"	"	"
Dibenzofuran (132-64-9)	U		49.7	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**272**	**J**	49.7	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		49.7	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		49.7	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		49.7	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	99.3	"	"	"
2,4-Dichlorophenol (120-83-2)	U		49.7	"	"	"
Diethyl phthalate (84-66-2)	U		497	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	397	"	"	"
Dimethyl phthalate (131-11-3)	U		497	"	"	"
2,4-Dinitrophenol (51-28-5)	U		497	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		99.3	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		99.3	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		497	"	"	"
Di-n-butyl phthalate (84-74-2)	U		497	"	"	"
Di-n-octyl phthalate (117-84-0)	U		497	"	"	"
Fluoranthene (206-44-0)	**408**		49.7	"	"	"
Fluorene (86-73-7)	U		49.7	"	"	"
Hexachlorobenzene (118-74-1)	U		49.7	"	"	"
Hexachlorobutadiene (87-68-3)	U		49.7	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		497	"	"	"
Hexachloroethane (67-72-1)	U		49.7	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**385**	**J**	49.7	"	"	"
Isophorone (78-59-1)	U		49.7	"	"	"
2-Methylnaphthalene (91-57-6)	**413**		49.7	"	"	"
2-Methylphenol (95-48-7)	U		49.7	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		49.7	"	"	"
Naphthalene (91-20-3)	**141**		49.7	"	"	"
2-Nitroaniline (88-74-4)	U		99.3	"	"	"
3-Nitroaniline (99-09-2)	U		99.3	"	"	"
4-Nitroaniline (100-01-6)	U		99.3	"	"	"
Nitrobenzene (98-95-3)	U		49.7	"	"	"

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Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-07 **Station ID: SO-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.294 g
%Solids: 97.82

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		49.7	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		497	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		49.7	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		49.7	"	"	"
Pentachlorophenol (87-86-5)	U		99.3	"	"	"
Phenanthrene (85-01-8)	**408**		49.7	"	"	"
Phenol (108-95-2)	U		49.7	"	"	"
Pyrene (129-00-0)	**649**	**J**	49.7	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		49.7	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		49.7	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		49.7	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-07 **Station ID: SO-05**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.072 g
%Solids: 97.82

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	12.7		50.2	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	15.9		62.6	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.3	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		40.6	"	"	"
Aroclor-1232 (11141-16-5)	U		20.3	"	"	"
Aroclor-1242 (53469-21-9)	U		20.3	"	"	"
Aroclor-1248 (12672-29-6)	U		20.3	"	"	"
Aroclor-1254 (11097-69-1)	U		20.3	"	"	"
Aroclor-1260 (11096-82-5)	U		20.3	"	"	"
Aroclor-1268 (11100-14-4)	U		20.3	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-08 **Station ID: SO-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.023 g
%Solids: 98.55

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	493		64.9	38-101	08/10/11	08/18/11
Surr: Phenol-d5	565		74.4	42-105	"	"
Surr: 2-Chlorophenol-d4	525		69.2	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	322		63.6	37-100	"	"
Surr: Nitrobenzene-d5	374		73.8	42-108	"	"
Surr: 2-Fluorobiphenyl	460		90.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	829		109	55-115	"	"
Surr: Terphenyl-d14	520		103	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	**268**		50.6	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		50.6	"	"	"
Acetophenone (98-86-2)	U		50.6	"	"	"
Anthracene (120-12-7)	**615**		50.6	"	"	"
Atrazine (1912-24-9)	U		50.6	"	"	"
Benzaldehyde (100-52-7)	U		101	"	"	"
Benzoic acid (65-85-0)	U		506	"	"	"
Benzo (a) anthracene (56-55-3)	**1,650**	**J**	50.6	"	"	"
Benzo (a) pyrene (50-32-8)	**1,680**	**J**	20.2	"	"	"
Benzo (b) fluoranthene (205-99-2)	**1,600**	**J**	50.6	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**379**	**J**	50.6	"	"	"
Benzo (k) fluoranthene (207-08-9)	**1,180**	**J**	50.6	"	"	"
Benzyl alcohol (100-51-6)	U		50.6	"	"	"
1,1'-Biphenyl (92-52-4)	**63.8**		50.6	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		50.6	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		50.6	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		50.6	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		506	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		50.6	"	"	"
Butyl benzyl phthalate (85-68-7)	U		506	"	"	"
Carbazole (86-74-8)	**481**	**J**	50.6	"	"	"
Caprolactam (105-60-2)	U		101	"	"	"
4-Chloroaniline (106-47-8)	U	RL	152	"	"	"
2-Chloronaphthalene (91-58-7)	U		50.6	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-08 **Station ID: SO-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.023 g
%Solids: 98.55

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		50.6	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		50.6	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		50.6	"	"	"
Chrysene (218-01-9)	**1,650**	**J**	50.6	"	"	"
Dibenzofuran (132-64-9)	**215**		50.6	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**623**	**J**	50.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		50.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		50.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		50.6	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	101	"	"	"
2,4-Dichlorophenol (120-83-2)	U		50.6	"	"	"
Diethyl phthalate (84-66-2)	U		506	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	405	"	"	"
Dimethyl phthalate (131-11-3)	U		506	"	"	"
2,4-Dinitrophenol (51-28-5)	U		506	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		101	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		101	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		506	"	"	"
Di-n-butyl phthalate (84-74-2)	U		506	"	"	"
Di-n-octyl phthalate (117-84-0)	U		506	"	"	"
Fluoranthene (206-44-0)	**1,930**		50.6	"	"	"
Fluorene (86-73-7)	**214**		50.6	"	"	"
Hexachlorobenzene (118-74-1)	U		50.6	"	"	"
Hexachlorobutadiene (87-68-3)	U		50.6	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		506	"	"	"
Hexachloroethane (67-72-1)	U		50.6	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**991**	**J**	50.6	"	"	"
Isophorone (78-59-1)	U		50.6	"	"	"
2-Methylnaphthalene (91-57-6)	**500**		50.6	"	"	"
2-Methylphenol (95-48-7)	U		50.6	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		50.6	"	"	"
Naphthalene (91-20-3)	**476**		50.6	"	"	"
2-Nitroaniline (88-74-4)	U		101	"	"	"
3-Nitroaniline (99-09-2)	U		101	"	"	"
4-Nitroaniline (100-01-6)	U		101	"	"	"
Nitrobenzene (98-95-3)	U		50.6	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-08 **Station ID: SO-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.023 g
%Solids: 98.55

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		50.6	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		506	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		50.6	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		50.6	"	"	"
Pentachlorophenol (87-86-5)	U		101	"	"	"
Phenanthrene (85-01-8)	**2,110**		506	10	"	08/23/11
Phenol (108-95-2)	U		50.6	1	"	08/18/11
Pyrene (129-00-0)	**2,510**	**J**	506	10	"	08/23/11
1,2,4-Trichlorobenzene (120-82-1)	U		50.6	1	"	08/18/11
2,4,5-Trichlorophenol (95-95-4)	U		50.6	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		50.6	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-08 **Station ID: SO-06**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.311 g
%Solids: 98.55

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	9.21		37.4 #	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	11.2		45.6 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U	RL	39.4	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U	RL	78.7	"	"	"
Aroclor-1232 (11141-16-5)	U	RL	39.4	"	"	"
Aroclor-1242 (53469-21-9)	U	RL	39.4	"	"	"
Aroclor-1248 (12672-29-6)	U	RL	39.4	"	"	"
Aroclor-1254 (11097-69-1)	U	RL	39.4	"	"	"
Aroclor-1260 (11096-82-5)	U	RL	39.4	"	"	"
Aroclor-1268 (11100-14-4)	U	RL	39.4	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-09 **Station ID: SE-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.037 g
%Solids: 95.31

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	429		54.7	38-101	08/10/11	08/18/11
Surr: Phenol-d5	502		64.0	42-105	"	"
Surr: 2-Chlorophenol-d4	447		57.1	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	262		50.2	37-100	"	"
Surr: Nitrobenzene-d5	308		59.0	42-108	"	"
Surr: 2-Fluorobiphenyl	390		74.6	51-103	"	"
Surr: 2,4,6-Tribromophenol	779		99.3	55-115	"	"
Surr: Terphenyl-d14	514		98.4	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		52.3	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		52.3	"	"	"
Acetophenone (98-86-2)	U		52.3	"	"	"
Anthracene (120-12-7)	U		52.3	"	"	"
Atrazine (1912-24-9)	U		52.3	"	"	"
Benzaldehyde (100-52-7)	U		105	"	"	"
Benzoic acid (65-85-0)	U		523	"	"	"
Benzo (a) anthracene (56-55-3)	**250**	**J**	52.3	"	"	"
Benzo (a) pyrene (50-32-8)	**332**	**J**	20.9	"	"	"
Benzo (b) fluoranthene (205-99-2)	**298**	**J**	52.3	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**90.9**	**J**	52.3	"	"	"
Benzo (k) fluoranthene (207-08-9)	**163**	**J**	52.3	"	"	"
Benzyl alcohol (100-51-6)	U		52.3	"	"	"
1,1'-Biphenyl (92-52-4)	U		52.3	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		52.3	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		52.3	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		52.3	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		523	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		52.3	"	"	"
Butyl benzyl phthalate (85-68-7)	U		523	"	"	"
Carbazole (86-74-8)	U		52.3	"	"	"
Caprolactam (105-60-2)	U		105	"	"	"
4-Chloroaniline (106-47-8)	U	RL	157	"	"	"
2-Chloronaphthalene (91-58-7)	U		52.3	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-09 **Station ID: SE-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.037 g
%Solids: 95.31

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		52.3	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		52.3	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		52.3	"	"	"
Chrysene (218-01-9)	**381**	**J**	52.3	"	"	"
Dibenzofuran (132-64-9)	U		52.3	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**172**	**J**	52.3	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		52.3	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		52.3	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		52.3	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	105	"	"	"
2,4-Dichlorophenol (120-83-2)	U		52.3	"	"	"
Diethyl phthalate (84-66-2)	U		523	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	418	"	"	"
Dimethyl phthalate (131-11-3)	U		523	"	"	"
2,4-Dinitrophenol (51-28-5)	U		523	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		105	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		105	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		523	"	"	"
Di-n-butyl phthalate (84-74-2)	U		523	"	"	"
Di-n-octyl phthalate (117-84-0)	U		523	"	"	"
Fluoranthene (206-44-0)	**199**		52.3	"	"	"
Fluorene (86-73-7)	U		52.3	"	"	"
Hexachlorobenzene (118-74-1)	U		52.3	"	"	"
Hexachlorobutadiene (87-68-3)	U		52.3	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		523	"	"	"
Hexachloroethane (67-72-1)	U		52.3	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**189**	**J**	52.3	"	"	"
Isophorone (78-59-1)	U		52.3	"	"	"
2-Methylnaphthalene (91-57-6)	**195**		52.3	"	"	"
2-Methylphenol (95-48-7)	U		52.3	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		52.3	"	"	"
Naphthalene (91-20-3)	**61.7**		52.3	"	"	"
2-Nitroaniline (88-74-4)	U		105	"	"	"
3-Nitroaniline (99-09-2)	U		105	"	"	"
4-Nitroaniline (100-01-6)	U		105	"	"	"
Nitrobenzene (98-95-3)	U		52.3	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-09 **Station ID: SE-03**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.037 g
%Solids: 95.31

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		52.3	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		523	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		52.3	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		52.3	"	"	"
Pentachlorophenol (87-86-5)	U		105	"	"	"
Phenanthrene (85-01-8)	**223**		52.3	"	"	"
Phenol (108-95-2)	U		52.3	"	"	"
Pyrene (129-00-0)	**336**	**J**	52.3	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		52.3	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		52.3	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		52.3	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-09 **Station ID: SE-03**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.213 g
%Solids: 95.31

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	13.8		53.6	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	17.4		67.9	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.5	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		41.1	"	"	"
Aroclor-1232 (11141-16-5)	U		20.5	"	"	"
Aroclor-1242 (53469-21-9)	U		20.5	"	"	"
Aroclor-1248 (12672-29-6)	U		20.5	"	"	"
Aroclor-1254 (11097-69-1)	U		20.5	"	"	"
Aroclor-1260 (11096-82-5)	U		20.5	"	"	"
Aroclor-1268 (11100-14-4)	U		20.5	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-10 **Station ID: SE-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.306 g
%Solids: 95.35

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	482		63.2	38-101	08/10/11	08/18/11
Surr: Phenol-d5	590		77.3	42-105	"	"
Surr: 2-Chlorophenol-d4	533		69.9	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	292		57.4	37-100	"	"
Surr: Nitrobenzene-d5	360		70.8	42-108	"	"
Surr: 2-Fluorobiphenyl	446		87.6	51-103	"	"
Surr: 2,4,6-Tribromophenol	881		115	55-115	"	"
Surr: Terphenyl-d14	557		109	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		50.9	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		50.9	"	"	"
Acetophenone (98-86-2)	U		50.9	"	"	"
Anthracene (120-12-7)	U		50.9	"	"	"
Atrazine (1912-24-9)	U		50.9	"	"	"
Benzaldehyde (100-52-7)	U		102	"	"	"
Benzoic acid (65-85-0)	U		509	"	"	"
Benzo (a) anthracene (56-55-3)	**262**	**J**	50.9	"	"	"
Benzo (a) pyrene (50-32-8)	**370**	**J**	20.4	"	"	"
Benzo (b) fluoranthene (205-99-2)	**277**	**J**	50.9	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**95.7**	**J**	50.9	"	"	"
Benzo (k) fluoranthene (207-08-9)	**192**	**J**	50.9	"	"	"
Benzyl alcohol (100-51-6)	U		50.9	"	"	"
1,1'-Biphenyl (92-52-4)	U		50.9	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		50.9	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		50.9	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		50.9	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**536**	**J**	509	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		50.9	"	"	"
Butyl benzyl phthalate (85-68-7)	U		509	"	"	"
Carbazole (86-74-8)	U		50.9	"	"	"
Caprolactam (105-60-2)	U		102	"	"	"
4-Chloroaniline (106-47-8)	U	RL	153	"	"	"
2-Chloronaphthalene (91-58-7)	U		50.9	"	"	"

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-10 **Station ID: SE-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.306 g
%Solids: 95.35

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		50.9	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		50.9	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		50.9	"	"	"
Chrysene (218-01-9)	**390**	**J**	50.9	"	"	"
Dibenzofuran (132-64-9)	U		50.9	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**185**	**J**	50.9	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		50.9	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		50.9	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		50.9	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	102	"	"	"
2,4-Dichlorophenol (120-83-2)	U		50.9	"	"	"
Diethyl phthalate (84-66-2)	U		509	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	407	"	"	"
Dimethyl phthalate (131-11-3)	U		509	"	"	"
2,4-Dinitrophenol (51-28-5)	U		509	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		102	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		102	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		509	"	"	"
Di-n-butyl phthalate (84-74-2)	U		509	"	"	"
Di-n-octyl phthalate (117-84-0)	U		509	"	"	"
Fluoranthene (206-44-0)	**206**		50.9	"	"	"
Fluorene (86-73-7)	U		50.9	"	"	"
Hexachlorobenzene (118-74-1)	U		50.9	"	"	"
Hexachlorobutadiene (87-68-3)	U		50.9	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		509	"	"	"
Hexachloroethane (67-72-1)	U		50.9	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**194**	**J**	50.9	"	"	"
Isophorone (78-59-1)	U		50.9	"	"	"
2-Methylnaphthalene (91-57-6)	**210**		50.9	"	"	"
2-Methylphenol (95-48-7)	U		50.9	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		50.9	"	"	"
Naphthalene (91-20-3)	**68.2**		50.9	"	"	"
2-Nitroaniline (88-74-4)	U		102	"	"	"
3-Nitroaniline (99-09-2)	U		102	"	"	"
4-Nitroaniline (100-01-6)	U		102	"	"	"
Nitrobenzene (98-95-3)	U		50.9	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-10 **Station ID: SE-04**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.306 g
%Solids: 95.35

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		50.9	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		509	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		50.9	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		50.9	"	"	"
Pentachlorophenol (87-86-5)	U		102	"	"	"
Phenanthrene (85-01-8)	**241**		50.9	"	"	"
Phenol (108-95-2)	U		50.9	"	"	"
Pyrene (129-00-0)	**340**	**J**	50.9	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		50.9	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		50.9	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		50.9	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-10 **Station ID: SE-04**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.479 g
%Solids: 95.35

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	15.0		60.0	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	18.5		74.0	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.0	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		40.0	"	"	"
Aroclor-1232 (11141-16-5)	U		20.0	"	"	"
Aroclor-1242 (53469-21-9)	U		20.0	"	"	"
Aroclor-1248 (12672-29-6)	U		20.0	"	"	"
Aroclor-1254 (11097-69-1)	U		20.0	"	"	"
Aroclor-1260 (11096-82-5)	U		20.0	"	"	"
Aroclor-1268 (11100-14-4)	U		20.0	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11 **Station ID: SE-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.082 g
%Solids: 64.28

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	434		37.5 #	38-101	08/10/11	08/18/11
Surr: Phenol-d5	549		47.5	42-105	"	"
Surr: 2-Chlorophenol-d4	492		42.5	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	248		32.2 #	37-100	"	"
Surr: Nitrobenzene-d5	313		40.6 #	42-108	"	"
Surr: 2-Fluorobiphenyl	403		52.2	51-103	"	"
Surr: 2,4,6-Tribromophenol	836		72.3	55-115	"	"
Surr: Terphenyl-d14	526		68.2	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		77.2	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		77.2	"	"	"
Acetophenone (98-86-2)	U		77.2	"	"	"
Anthracene (120-12-7)	U		77.2	"	"	"
Atrazine (1912-24-9)	U		77.2	"	"	"
Benzaldehyde (100-52-7)	U		154	"	"	"
Benzoic acid (65-85-0)	U		772	"	"	"
Benzo (a) anthracene (56-55-3)	**304**	**J**	77.2	"	"	"
Benzo (a) pyrene (50-32-8)	**347**	**J**	30.9	"	"	"
Benzo (b) fluoranthene (205-99-2)	**393**	**J**	77.2	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	309	"	"	"
Benzo (k) fluoranthene (207-08-9)	**184**	**J**	77.2	"	"	"
Benzyl alcohol (100-51-6)	U		77.2	"	"	"
1,1'-Biphenyl (92-52-4)	U		77.2	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		77.2	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		77.2	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		77.2	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**1,020**	**J**	772	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		77.2	"	"	"
Butyl benzyl phthalate (85-68-7)	U		772	"	"	"
Carbazole (86-74-8)	U		77.2	"	"	"
Caprolactam (105-60-2)	U		154	"	"	"
4-Chloroaniline (106-47-8)	U	RL	231	"	"	"
2-Chloronaphthalene (91-58-7)	U		77.2	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11 **Station ID: SE-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.082 g
%Solids: 64.28

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		77.2	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		77.2	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		77.2	"	"	"
Chrysene (218-01-9)	**336**	**J**	77.2	"	"	"
Dibenzofuran (132-64-9)	U		77.2	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**156**	**J**	77.2	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		77.2	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		77.2	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		77.2	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	154	"	"	"
2,4-Dichlorophenol (120-83-2)	U		77.2	"	"	"
Diethyl phthalate (84-66-2)	U		772	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	617	"	"	"
Dimethyl phthalate (131-11-3)	U		772	"	"	"
2,4-Dinitrophenol (51-28-5)	U		772	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		154	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		154	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		772	"	"	"
Di-n-butyl phthalate (84-74-2)	U		772	"	"	"
Di-n-octyl phthalate (117-84-0)	U		772	"	"	"
Fluoranthene (206-44-0)	**353**		77.2	"	"	"
Fluorene (86-73-7)	U		77.2	"	"	"
Hexachlorobenzene (118-74-1)	U		77.2	"	"	"
Hexachlorobutadiene (87-68-3)	U		77.2	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		772	"	"	"
Hexachloroethane (67-72-1)	U		77.2	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**221**	**J**	77.2	"	"	"
Isophorone (78-59-1)	U		77.2	"	"	"
2-Methylnaphthalene (91-57-6)	U		77.2	"	"	"
2-Methylphenol (95-48-7)	U		77.2	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**123**		77.2	"	"	"
Naphthalene (91-20-3)	U		77.2	"	"	"
2-Nitroaniline (88-74-4)	U		154	"	"	"
3-Nitroaniline (99-09-2)	U		154	"	"	"
4-Nitroaniline (100-01-6)	U		154	"	"	"
Nitrobenzene (98-95-3)	U		77.2	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11 **Station ID: SE-05**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.082 g
%Solids: 64.28

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		77.2	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		772	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		77.2	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		77.2	"	"	"
Pentachlorophenol (87-86-5)	U		154	"	"	"
Phenanthrene (85-01-8)	**173**		77.2	"	"	"
Phenol (108-95-2)	U		77.2	"	"	"
Pyrene (129-00-0)	**455**	**J**	77.2	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		77.2	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		77.2	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		77.2	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-11 **Station ID: SE-05**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 12.827 g
%Solids: 64.28

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	25.1		82.9	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	48.8		161 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		24.3	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		48.5	"	"	"
Aroclor-1232 (11141-16-5)	U		24.3	"	"	"
Aroclor-1242 (53469-21-9)	U		24.3	"	"	"
Aroclor-1248 (12672-29-6)	U		24.3	"	"	"
Aroclor-1254 (11097-69-1)	U		24.3	"	"	"
Aroclor-1260 (11096-82-5)	U	RL	182	"	"	"
Aroclor-1268 (11100-14-4)	U		24.3	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11RE1 **Station ID: SE-05**

Batch: B1H1901
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.376 g
%Solids: 64.28

Sample Qualifiers: **HTS**

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	732		65.1	38-101	08/19/11	08/23/11
Surr: Phenol-d5	900		80.0	42-105	"	"
Surr: 2-Chlorophenol-d4	850		75.6	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	501		66.8	37-100	"	"
Surr: Nitrobenzene-d5	597		79.6	42-108	"	"
Surr: 2-Fluorobiphenyl	703		93.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	1,350		120 #	55-115	"	"
Surr: Terphenyl-d14	837		112	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		75.0	1	08/19/11	08/23/11
Acenaphthylene (208-96-8)	U		75.0	"	"	"
Acetophenone (98-86-2)	**91.5**		75.0	"	"	"
Anthracene (120-12-7)	U		75.0	"	"	"
Atrazine (1912-24-9)	U		75.0	"	"	"
Benzaldehyde (100-52-7)	U		150	"	"	"
Benzoic acid (65-85-0)	U		750	"	"	"
Benzo (a) anthracene (56-55-3)	**262**	**J**	75.0	"	"	"
Benzo (a) pyrene (50-32-8)	**66.0**	**J**	30.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	**328**	**J**	75.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	225	"	"	"
Benzo (k) fluoranthene (207-08-9)	**222**	**J**	75.0	"	"	"
Benzyl alcohol (100-51-6)	U		75.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		75.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		75.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		75.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		75.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		750	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		75.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		750	"	"	"
Carbazole (86-74-8)	U		75.0	"	"	"
Caprolactam (105-60-2)	U		150	"	"	"
4-Chloroaniline (106-47-8)	U		75.0	"	"	"
2-Chloronaphthalene (91-58-7)	U		75.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11RE1 **Station ID: SE-05**

Batch: B1H1901
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.376 g
%Solids: 64.28

Sample Qualifiers: **HTS**

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		75.0	1	08/19/11	08/23/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		75.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		75.0	"	"	"
Chrysene (218-01-9)	**325**	**J**	75.0	"	"	"
Dibenzofuran (132-64-9)	U		75.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**127**	**J**	75.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		75.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		75.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		75.0	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U		75.0	"	"	"
2,4-Dichlorophenol (120-83-2)	U		75.0	"	"	"
Diethyl phthalate (84-66-2)	U		750	"	"	"
2,4-Dimethylphenol (105-67-9)	U		150	"	"	"
Dimethyl phthalate (131-11-3)	U		750	"	"	"
2,4-Dinitrophenol (51-28-5)	U		750	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		150	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		150	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		750	"	"	"
Di-n-butyl phthalate (84-74-2)	U		750	"	"	"
Di-n-octyl phthalate (117-84-0)	U		750	"	"	"
Fluoranthene (206-44-0)	**268**	**J**	75.0	"	"	"
Fluorene (86-73-7)	U		75.0	"	"	"
Hexachlorobenzene (118-74-1)	U		75.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		75.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		750	"	"	"
Hexachloroethane (67-72-1)	U		75.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**118**	**J**	75.0	"	"	"
Isophorone (78-59-1)	U		75.0	"	"	"
2-Methylnaphthalene (91-57-6)	**93.0**		75.0	"	"	"
2-Methylphenol (95-48-7)	U		75.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**202**		75.0	"	"	"
Naphthalene (91-20-3)	U		75.0	"	"	"
2-Nitroaniline (88-74-4)	U		150	"	"	"
3-Nitroaniline (99-09-2)	U		150	"	"	"
4-Nitroaniline (100-01-6)	U		150	"	"	"
Nitrobenzene (98-95-3)	U		75.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-11RE1 **Station ID: SE-05**

Batch: B1H1901
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.376 g
%Solids: 64.28

Sample Qualifiers: **HTS**

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		75.0	1	08/19/11	08/23/11
4-Nitrophenol (100-02-7)	U		750	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		75.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		75.0	"	"	"
Pentachlorophenol (87-86-5)	U		150	"	"	"
Phenanthrene (85-01-8)	**151**	**J**	75.0	"	"	"
Phenol (108-95-2)	U		75.0	"	"	"
Pyrene (129-00-0)	**265**	**J**	75.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		75.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		75.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		75.0	"	"	"

DS

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-12 **Station ID: SO-07**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.893 g
%Solids: 99.47

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	475		68.7	38-101	08/10/11	08/18/11
Surr: Phenol-d5	525		75.9	42-105	"	"
Surr: 2-Chlorophenol-d4	516		74.5	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	317		68.6	37-100	"	"
Surr: Nitrobenzene-d5	366		79.4	42-108	"	"
Surr: 2-Fluorobiphenyl	414		89.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	743		107	55-115	"	"
Surr: Terphenyl-d14	521		113	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		46.1	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		46.1	"	"	"
Acetophenone (98-86-2)	U		46.1	"	"	"
Anthracene (120-12-7)	**78.4**		46.1	"	"	"
Atrazine (1912-24-9)	U		46.1	"	"	"
Benzaldehyde (100-52-7)	U		92.3	"	"	"
Benzoic acid (65-85-0)	U		461	"	"	"
Benzo (a) anthracene (56-55-3)	**272**	**J**	46.1	"	"	"
Benzo (a) pyrene (50-32-8)	**311**	**J**	18.5	"	"	"
Benzo (b) fluoranthene (205-99-2)	**232**	**J**	46.1	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**60.9**	**NJ**	46.1	"	"	"
Benzo (k) fluoranthene (207-08-9)	**184**	**J**	46.1	"	"	"
Benzyl alcohol (100-51-6)	U		46.1	"	"	"
1,1'-Biphenyl (92-52-4)	U		46.1	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		46.1	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		46.1	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		46.1	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		461	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		46.1	"	"	"
Butyl benzyl phthalate (85-68-7)	U		461	"	"	"
Carbazole (86-74-8)	**51.7**	**J**	46.1	"	"	"
Caprolactam (105-60-2)	U		92.3	"	"	"
4-Chloroaniline (106-47-8)	U	RL	138	"	"	"
2-Chloronaphthalene (91-58-7)	U		46.1	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-12 **Station ID: SO-07**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.893 g
%Solids: 99.47

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		46.1	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		46.1	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		46.1	"	"	"
Chrysene (218-01-9)	**322**	**J**	46.1	"	"	"
Dibenzofuran (132-64-9)	U		46.1	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**162**	**J**	46.1	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		46.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		46.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		46.1	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	92.3	"	"	"
2,4-Dichlorophenol (120-83-2)	U		46.1	"	"	"
Diethyl phthalate (84-66-2)	U		461	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	369	"	"	"
Dimethyl phthalate (131-11-3)	U		461	"	"	"
2,4-Dinitrophenol (51-28-5)	U		461	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		92.3	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		92.3	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		461	"	"	"
Di-n-butyl phthalate (84-74-2)	U		461	"	"	"
Di-n-octyl phthalate (117-84-0)	U		461	"	"	"
Fluoranthene (206-44-0)	**265**		46.1	"	"	"
Fluorene (86-73-7)	U		46.1	"	"	"
Hexachlorobenzene (118-74-1)	U		46.1	"	"	"
Hexachlorobutadiene (87-68-3)	U		46.1	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		461	"	"	"
Hexachloroethane (67-72-1)	U		46.1	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**146**	**J**	46.1	"	"	"
Isophorone (78-59-1)	U		46.1	"	"	"
2-Methylnaphthalene (91-57-6)	**341**		46.1	"	"	"
2-Methylphenol (95-48-7)	U		46.1	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		46.1	"	"	"
Naphthalene (91-20-3)	**111**		46.1	"	"	"
2-Nitroaniline (88-74-4)	U		92.3	"	"	"
3-Nitroaniline (99-09-2)	U		92.3	"	"	"
4-Nitroaniline (100-01-6)	U		92.3	"	"	"
Nitrobenzene (98-95-3)	U		46.1	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-12 **Station ID: SO-07**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.893 g
%Solids: 99.47

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		46.1	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		461	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		46.1	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		46.1	"	"	"
Pentachlorophenol (87-86-5)	U		92.3	"	"	"
Phenanthrene (85-01-8)	**281**		46.1	"	"	"
Phenol (108-95-2)	U		46.1	"	"	"
Pyrene (129-00-0)	**424**	**J**	46.1	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		46.1	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		46.1	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		46.1	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-12 **Station ID: SO-07**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.152 g
%Solids: 99.47

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	22.1		89.4	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	26.9		109	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.8	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		39.6	"	"	"
Aroclor-1232 (11141-16-5)	U		19.8	"	"	"
Aroclor-1242 (53469-21-9)	U		19.8	"	"	"
Aroclor-1248 (12672-29-6)	U		19.8	"	"	"
Aroclor-1254 (11097-69-1)	U		19.8	"	"	"
Aroclor-1260 (11096-82-5)	U		19.8	"	"	"
Aroclor-1268 (11100-14-4)	U		19.8	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-13 **Station ID: SO-08**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.95 g
%Solids: 96.59

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	471		66.4	38-101	08/10/11	08/18/11
Surr: Phenol-d5	549		77.5	42-105	"	"
Surr: 2-Chlorophenol-d4	514		72.5	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	316		66.8	37-100	"	"
Surr: Nitrobenzene-d5	372		78.6	42-108	"	"
Surr: 2-Fluorobiphenyl	427		90.4	51-103	"	"
Surr: 2,4,6-Tribromophenol	807		114	55-115	"	"
Surr: Terphenyl-d14	534		113	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		47.3	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		47.3	"	"	"
Acetophenone (98-86-2)	U		47.3	"	"	"
Anthracene (120-12-7)	U		47.3	"	"	"
Atrazine (1912-24-9)	U		47.3	"	"	"
Benzaldehyde (100-52-7)	U		94.5	"	"	"
Benzoic acid (65-85-0)	U		473	"	"	"
Benzo (a) anthracene (56-55-3)	**114**	**J**	47.3	"	"	"
Benzo (a) pyrene (50-32-8)	**149**	**J**	18.9	"	"	"
Benzo (b) fluoranthene (205-99-2)	**116**	**J**	47.3	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	189	"	"	"
Benzo (k) fluoranthene (207-08-9)	**102**	**J**	47.3	"	"	"
Benzyl alcohol (100-51-6)	U		47.3	"	"	"
1,1'-Biphenyl (92-52-4)	U		47.3	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		47.3	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		47.3	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		47.3	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		473	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		47.3	"	"	"
Butyl benzyl phthalate (85-68-7)	U		473	"	"	"
Carbazole (86-74-8)	U		47.3	"	"	"
Caprolactam (105-60-2)	U		94.5	"	"	"
4-Chloroaniline (106-47-8)	U	RL	142	"	"	"
2-Chloronaphthalene (91-58-7)	U		47.3	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-13 **Station ID: SO-08**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.95 g
%Solids: 96.59

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		47.3	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		47.3	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		47.3	"	"	"
Chrysene (218-01-9)	**144**	**J**	47.3	"	"	"
Dibenzofuran (132-64-9)	U		47.3	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**57.7**	**J**	47.3	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		47.3	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		47.3	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		47.3	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	94.5	"	"	"
2,4-Dichlorophenol (120-83-2)	U		47.3	"	"	"
Diethyl phthalate (84-66-2)	U		473	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	378	"	"	"
Dimethyl phthalate (131-11-3)	U		473	"	"	"
2,4-Dinitrophenol (51-28-5)	U		473	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		94.5	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		94.5	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		473	"	"	"
Di-n-butyl phthalate (84-74-2)	U		473	"	"	"
Di-n-octyl phthalate (117-84-0)	U		473	"	"	"
Fluoranthene (206-44-0)	**129**		47.3	"	"	"
Fluorene (86-73-7)	U		47.3	"	"	"
Hexachlorobenzene (118-74-1)	U		47.3	"	"	"
Hexachlorobutadiene (87-68-3)	U		47.3	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		473	"	"	"
Hexachloroethane (67-72-1)	U		47.3	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**78.5**	**J**	47.3	"	"	"
Isophorone (78-59-1)	U		47.3	"	"	"
2-Methylnaphthalene (91-57-6)	**63.3**		47.3	"	"	"
2-Methylphenol (95-48-7)	U		47.3	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		47.3	"	"	"
Naphthalene (91-20-3)	U		47.3	"	"	"
2-Nitroaniline (88-74-4)	U		94.5	"	"	"
3-Nitroaniline (99-09-2)	U		94.5	"	"	"
4-Nitroaniline (100-01-6)	U		94.5	"	"	"
Nitrobenzene (98-95-3)	U		47.3	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-13 **Station ID: SO-08**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.95 g
%Solids: 96.59

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		47.3	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		473	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		47.3	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		47.3	"	"	"
Pentachlorophenol (87-86-5)	U		94.5	"	"	"
Phenanthrene (85-01-8)	**96.4**		47.3	"	"	"
Phenol (108-95-2)	U		47.3	"	"	"
Pyrene (129-00-0)	**184**	**J**	47.3	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		47.3	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		47.3	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		47.3	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-13 **Station ID: SO-08**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.286 g
%Solids: 96.59

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	20.9		83.1	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	21.3		84.7	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.1	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		40.3	"	"	"
Aroclor-1232 (11141-16-5)	U		20.1	"	"	"
Aroclor-1242 (53469-21-9)	U		20.1	"	"	"
Aroclor-1248 (12672-29-6)	U		20.1	"	"	"
Aroclor-1254 (11097-69-1)	U		20.1	"	"	"
Aroclor-1260 (11096-82-5)	U		20.1	"	"	"
Aroclor-1268 (11100-14-4)	U		20.1	"	"	"

LW

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-14 **Station ID: SE-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.909 g
%Solids: 95.54

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	461		64.0	38-101	08/10/11	08/18/11
Surr: Phenol-d5	537		74.7	42-105	"	"
Surr: 2-Chlorophenol-d4	509		70.7	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	336		70.0	37-100	"	"
Surr: Nitrobenzene-d5	390		81.4	42-108	"	"
Surr: 2-Fluorobiphenyl	430		89.6	51-103	"	"
Surr: 2,4,6-Tribromophenol	774		108	55-115	"	"
Surr: Terphenyl-d14	551		115	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		48.0	1	08/10/11	08/18/11
Acenaphthylene (208-96-8)	U		48.0	"	"	"
Acetophenone (98-86-2)	U		48.0	"	"	"
Anthracene (120-12-7)	U		48.0	"	"	"
Atrazine (1912-24-9)	U		48.0	"	"	"
Benzaldehyde (100-52-7)	U		95.9	"	"	"
Benzoic acid (65-85-0)	U		480	"	"	"
Benzo (a) anthracene (56-55-3)	U		48.0	"	"	"
Benzo (a) pyrene (50-32-8)	**48.9**	**J**	19.2	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		48.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	192	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		48.0	"	"	"
Benzyl alcohol (100-51-6)	U		48.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		48.0	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		48.0	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		48.0	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		48.0	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		480	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		48.0	"	"	"
Butyl benzyl phthalate (85-68-7)	U		480	"	"	"
Carbazole (86-74-8)	U		48.0	"	"	"
Caprolactam (105-60-2)	U		95.9	"	"	"
4-Chloroaniline (106-47-8)	U	RL	144	"	"	"
2-Chloronaphthalene (91-58-7)	U		48.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-14 **Station ID: SE-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.909 g
%Solids: 95.54

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		48.0	1	08/10/11	08/18/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		48.0	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		48.0	"	"	"
Chrysene (218-01-9)	U		48.0	"	"	"
Dibenzofuran (132-64-9)	U		48.0	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		48.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		48.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		48.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		48.0	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	RL	95.9	"	"	"
2,4-Dichlorophenol (120-83-2)	U		48.0	"	"	"
Diethyl phthalate (84-66-2)	U		480	"	"	"
2,4-Dimethylphenol (105-67-9)	U	RL	384	"	"	"
Dimethyl phthalate (131-11-3)	U		480	"	"	"
2,4-Dinitrophenol (51-28-5)	U		480	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		95.9	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		95.9	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		480	"	"	"
Di-n-butyl phthalate (84-74-2)	U		480	"	"	"
Di-n-octyl phthalate (117-84-0)	U		480	"	"	"
Fluoranthene (206-44-0)	U		48.0	"	"	"
Fluorene (86-73-7)	U		48.0	"	"	"
Hexachlorobenzene (118-74-1)	U		48.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		48.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		480	"	"	"
Hexachloroethane (67-72-1)	U		48.0	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		48.0	"	"	"
Isophorone (78-59-1)	U		48.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		48.0	"	"	"
2-Methylphenol (95-48-7)	U		48.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		48.0	"	"	"
Naphthalene (91-20-3)	U		48.0	"	"	"
2-Nitroaniline (88-74-4)	U		95.9	"	"	"
3-Nitroaniline (99-09-2)	U		95.9	"	"	"
4-Nitroaniline (100-01-6)	U		95.9	"	"	"
Nitrobenzene (98-95-3)	U		48.0	"	"	"

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level)

Lab ID: 1107052-14 **Station ID: SE-06**

Batch: B1H1001
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.909 g
%Solids: 95.54

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		48.0	1	08/10/11	08/18/11
4-Nitrophenol (100-02-7)	U		480	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		48.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		48.0	"	"	"
Pentachlorophenol (87-86-5)	U		95.9	"	"	"
Phenanthrene (85-01-8)	U		48.0	"	"	"
Phenol (108-95-2)	U		48.0	"	"	"
Pyrene (129-00-0)	**61.4**		48.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		48.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		48.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		48.0	"	"	"

DS

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-14 **Station ID: SE-06**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.163 g
%Solids: 95.54

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	16.9		65.8	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	19.5		75.6	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.6	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		41.2	"	"	"
Aroclor-1232 (11141-16-5)	U		20.6	"	"	"
Aroclor-1242 (53469-21-9)	U		20.6	"	"	"
Aroclor-1248 (12672-29-6)	U		20.6	"	"	"
Aroclor-1254 (11097-69-1)	U		20.6	"	"	"
Aroclor-1260 (11096-82-5)	U		20.6	"	"	"
Aroclor-1268 (11100-14-4)	U		20.6	"	"	"

LW

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1107052-15 **Station ID: SO-09**

Batch: B1H1002
Sample Type: Solid

Date Collected: 07/27/11
Sample Weight: 10.163 g
%Solids: 97.12

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	20.9		82.4	41-112	08/10/11	08/18/11
Surr: Decachlorobiphenyl	22.3		88.2	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		20.3	1	08/10/11	08/18/11
Aroclor-1221 (11104-28-2)	U		40.5	"	"	"
Aroclor-1232 (11141-16-5)	U		20.3	"	"	"
Aroclor-1242 (53469-21-9)	U		20.3	"	"	"
Aroclor-1248 (12672-29-6)	U		20.3	"	"	"
Aroclor-1254 (11097-69-1)	U		20.3	"	"	"
Aroclor-1260 (11096-82-5)	U		20.3	"	"	"
Aroclor-1268 (11100-14-4)	U		20.3	"	"	"

LW

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Percent Solids - Quality Control

Duplicate (B1H0301-DUP1)

Source: 1107052-15 Prepared: 8/3/2011 Analyzed: 8/4/2011

Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	97.18				97.12	0.06	20

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Blank (B1H1001-BLK1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	515		749	68.8	38-101
Surr: Phenol-d5	572		749	76.4	42-105
Surr: 2-Chlorophenol-d4	512		749	68.4	40-100
Surr: 1,2-Dichlorobenzene-d4	339		499	67.8	37-100
Surr: Nitrobenzene-d5	384		499	76.8	42-108
Surr: 2-Fluorobiphenyl	379		499	75.8	51-103
Surr: 2,4,6-Tribromophenol	555		749	74.1	55-115
Surr: Terphenyl-d14	356		499	71.2	55-125

Blank (B1H1001-BLK1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Acenaphthene	U		49.9
Acenaphthylene	U		49.9
Acetophenone	U		49.9
Anthracene	U		49.9
Atrazine	U		49.9
Benzaldehyde	U		99.9
Benzoic acid	U		499
Benzo (a) anthracene	U		49.9
Benzo (a) pyrene	U		20.0
Benzo (b) fluoranthene	U		49.9
Benzo (g,h,i) perylene	U		49.9
Benzo (k) fluoranthene	U		49.9
Benzyl alcohol	U		49.9
1,1'-Biphenyl	U		49.9
Bis(2-chloroethoxy)methane	U		49.9
Bis(2-chloroethyl)ether	U		49.9

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Blank (B1H1001-BLK1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Bis(2-chloroisopropyl)ether	U		49.9
Bis(2-ethylhexyl)phthalate	U		499
4-Bromophenyl phenyl ether	U		49.9
Butyl benzyl phthalate	U		499
Carbazole	U		49.9
Caprolactam	U		99.9
4-Chloroaniline	U		49.9
2-Chloronaphthalene	U		49.9
2-Chlorophenol	U		49.9
4-Chlorophenyl phenyl ether	U		49.9
4-Chloro-3-methylphenol	U		49.9
Chrysene	U		49.9
Dibenzofuran	U		49.9
Dibenz (a,h) anthracene	U		49.9
1,2-Dichlorobenzene	U		49.9
1,3-Dichlorobenzene	U		49.9
1,4-Dichlorobenzene	U		49.9
3,3´-Dichlorobenzidine	U		49.9
2,4-Dichlorophenol	U		49.9
Diethyl phthalate	U		499
2,4-Dimethylphenol	U		99.9
Dimethyl phthalate	U		499
2,4-Dinitrophenol	U		499
2,4-Dinitrotoluene	U		99.9
2,6-Dinitrotoluene	U		99.9
4,6-Dinitro-2-methylphenol	U		499
Di-n-butyl phthalate	U		499
Di-n-octyl phthalate	U		499
Fluoranthene	U		49.9
Fluorene	U		49.9

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Blank (B1H1001-BLK1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Hexachlorobenzene	U		49.9
Hexachlorobutadiene	U		49.9
Hexachlorocyclopentadiene	U		499
Hexachloroethane	U		49.9
Indeno (1,2,3-cd) pyrene	U		49.9
Isophorone	U		49.9
2-Methylnaphthalene	U		49.9
2-Methylphenol	U		49.9
3 &/or 4-Methylphenol	U		49.9
Naphthalene	U		49.9
2-Nitroaniline	U		99.9
3-Nitroaniline	U		99.9
4-Nitroaniline	U		99.9
Nitrobenzene	U		49.9
2-Nitrophenol	U		49.9
4-Nitrophenol	U		499
N-Nitrosodiphenylamine	U		49.9
N-Nitrosodi-n-propylamine	U		49.9
Pentachlorophenol	U		99.9
Phenanthrene	U		49.9
Phenol	U		49.9
Pyrene	U		49.9
1,2,4-Trichlorobenzene	U		49.9
2,4,5-Trichlorophenol	U		49.9
2,4,6-Trichlorophenol	U		49.9

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

LCS (B1H1001-BS1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	420		748	56.1	38-101
Surr: Phenol-d5	460		748	61.5	42-105
Surr: 2-Chlorophenol-d4	412		748	55.1	40-100
Surr: 1,2-Dichlorobenzene-d4	274		499	55.0	37-100
Surr: Nitrobenzene-d5	321		499	64.4	42-108
Surr: 2-Fluorobiphenyl	307		499	61.6	51-103
Surr: 2,4,6-Tribromophenol	518		748	69.2	55-115
Surr: Terphenyl-d14	327		499	65.6	55-125

LCS (B1H1001-BS1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	615		49.9	998	61.6	47-101
Acenaphthylene	620		49.9	998	62.1	49-102
Acetophenone	638		49.9	998	63.9	42-100
Anthracene	698		49.9	998	70.0	51-114
Atrazine	881		49.9	998	88.3	61-126
Benzaldehyde	588		99.8	998	58.9	30-100
Benzoic acid	407		499	998	40.8	10-125
Benzo (a) anthracene	832		49.9	998	83.4	59-121
Benzo (a) pyrene	769		20.0	998	77.1	65-124
Benzo (b) fluoranthene	830		49.9	998	83.2	60-119
Benzo (g,h,i) perylene	245		49.9	998	24.6 #	54-139
Benzo (k) fluoranthene	775		49.9	998	77.7	57-130
Benzyl alcohol	677		49.9	998	67.9	42-102
1,1'-Biphenyl	627		49.9	998	62.8	41-107
Bis(2-chloroethoxy)methane	638		49.9	998	63.9	47-100
Bis(2-chloroethyl)ether	591		49.9	998	59.2	37-100

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

LCS (B1H1001-BS1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Bis(2-chloroisopropyl)ether	600		49.9	998	60.1	41-100
Bis(2-ethylhexyl)phthalate	1,040		499	998	104	59-146
4-Bromophenyl phenyl ether	702		49.9	998	70.4	50-109
Butyl benzyl phthalate	851		499	998	85.3	65-124
Carbazole	828		49.9	998	83.0	59-124
Caprolactam	863		99.8	998	86.5	55-142
4-Chloroaniline	349		49.9	998	35.0 #	37-100
2-Chloronaphthalene	621		49.9	998	62.2	45-101
2-Chlorophenol	603		49.9	998	60.4	41-100
4-Chlorophenyl phenyl ether	652		49.9	998	65.3	47-113
4-Chloro-3-methylphenol	672		49.9	998	67.4	47-114
Chrysene	780		49.9	998	78.2	58-122
Dibenzofuran	641		49.9	998	64.2	49-104
Dibenz (a,h) anthracene	954		49.9	998	95.6	61-137
1,2-Dichlorobenzene	572		49.9	998	57.3	35-100
1,3-Dichlorobenzene	553		49.9	998	55.4	36-100
1,4-Dichlorobenzene	572		49.9	998	57.3	32-100
3,3´-Dichlorobenzidine	435		49.9	998	43.6 #	56-149
2,4-Dichlorophenol	652		49.9	998	65.4	49-101
Diethyl phthalate	779		499	998	78.1	45-136
2,4-Dimethylphenol	225		99.8	998	22.6 #	26-100
Dimethyl phthalate	697		499	998	69.9	53-111
2,4-Dinitrophenol	966		499	998	96.8	13-127
2,4-Dinitrotoluene	776		99.8	998	77.8	54-112
2,6-Dinitrotoluene	745		99.8	998	74.7	53-112
4,6-Dinitro-2-methylphenol	786		499	998	78.8	19-136
Di-n-butyl phthalate	943		499	998	94.5	57-139
Di-n-octyl phthalate	888		499	998	89.0	66-127
Fluoranthene	836		49.9	998	83.8	58-120
Fluorene	647		49.9	998	64.8	49-112

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

LCS (B1H1001-BS1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Hexachlorobenzene	706		49.9	998	70.8	48-111
Hexachlorobutadiene	626		49.9	998	62.7	42-101
Hexachlorocyclopentadiene	654		499	998	65.6	25-108
Hexachloroethane	599		49.9	998	60.0	35-100
Indeno (1,2,3-cd) pyrene	939		49.9	998	94.1	61-137
Isophorone	675		49.9	998	67.7	47-100
2-Methylnaphthalene	633		49.9	998	63.4	47-101
2-Methylphenol	538		49.9	998	53.9	44-100
3 &/or 4-Methylphenol	568		49.9	998	56.9	45-100
Naphthalene	599		49.9	998	60.0	44-100
2-Nitroaniline	747		99.8	998	74.9	53-112
3-Nitroaniline	590		99.8	998	59.1	50-117
4-Nitroaniline	846		99.8	998	84.8	61-137
Nitrobenzene	649		49.9	998	65.0	43-100
2-Nitrophenol	650		49.9	998	65.1	46-101
4-Nitrophenol	1,040		499	998	104	47-130
N-Nitrosodiphenylamine	790		49.9	998	79.2	53-112
N-Nitrosodi-n-propylamine	629		49.9	998	63.0	43-100
Pentachlorophenol	765		99.8	998	76.7	16-122
Phenanthrene	685		49.9	998	68.7	51-113
Phenol	623		49.9	998	62.4	40-101
Pyrene	727		49.9	998	72.9	51-119
1,2,4-Trichlorobenzene	616		49.9	998	61.7	40-100
2,4,5-Trichlorophenol	678		49.9	998	68.0	50-108
2,4,6-Trichlorophenol	625		49.9	998	62.6	48-105

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike (B1H1001-MS1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	625		881	70.9	38-101
Surr: Phenol-d5	753		881	85.5	42-105
Surr: 2-Chlorophenol-d4	659		881	74.8	40-100
Surr: 1,2-Dichlorobenzene-d4	363		587	61.8	37-100
Surr: Nitrobenzene-d5	462		587	78.6	42-108
Surr: 2-Fluorobiphenyl	547		587	93.2	51-103
Surr: 2,4,6-Tribromophenol	996		881	113	55-115
Surr: Terphenyl-d14	627		587	107	55-125

Matrix Spike (B1H1001-MS1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Acenaphthene	1,090		58.7	1,170	45.4	88.9	34-107
Acenaphthylene	1,060		58.7	1,170		89.9	48-111
Acetophenone	1,050		58.7	1,170	69.2	83.6	36-110
Anthracene	1,270		58.7	1,170	177	93.4	53-123
Atrazine	1,130		58.7	1,170		95.9	63-133
Benzaldehyde	838		117	1,170		71.4	21-102
Benzoic acid	2,210		587	1,170	413	153 #	10-115
Benzo (a) anthracene	1,650		58.7	1,170	692	81.6	58-129
Benzo (a) pyrene	1,530		23.5	1,170	783	64.0 #	69-125
Benzo (b) fluoranthene	1,360		58.7	1,170	579	66.8	65-126
Benzo (g,h,i) perylene	383		58.7	1,170	170	18.1 #	50-137
Benzo (k) fluoranthene	1,400		58.7	1,170	369	87.9	59-135
Benzyl alcohol	1,070		58.7	1,170		90.7	44-106
1,1'-Biphenyl	1,160		58.7	1,170	51.1	94.0	40-118
Bis(2-chloroethoxy)methane	1,020		58.7	1,170		86.9	48-103
Bis(2-chloroethyl)ether	831		58.7	1,170		70.8	31-104

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike (B1H1001-MS1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Bis(2-chloroisopropyl)ether	850		58.7	1,170		72.4		36-102
Bis(2-ethylhexyl)phthalate	1,730		587	1,170	291	123		56-153
4-Bromophenyl phenyl ether	1,280		58.7	1,170		109		55-116
Butyl benzyl phthalate	1,420		587	1,170	30.7	118		59-140
Carbazole	1,230		58.7	1,170	116	95.0		61-133
Caprolactam	1,290		117	1,170		110		48-156
4-Chloroaniline	U		58.7	1,170		NR	#	35-102
2-Chloronaphthalene	1,100		58.7	1,170		93.7		48-105
2-Chlorophenol	979		58.7	1,170		83.4		28-94
4-Chlorophenyl phenyl ether	1,120		58.7	1,170		95.2		48-119
4-Chloro-3-methylphenol	1,170		58.7	1,170		99.3		38-126
Chrysene	1,570		58.7	1,170	764	68.4		58-128
Dibenzofuran	1,160		58.7	1,170	44.3	94.6		50-111
Dibenz (a,h) anthracene	1,710		58.7	1,170	316	119		62-135
1,2-Dichlorobenzene	795		58.7	1,170	7.9	67.0		39-97
1,3-Dichlorobenzene	719		58.7	1,170		61.2		38-95
1,4-Dichlorobenzene	781		58.7	1,170	6.8	65.9		27-83
3,3´-Dichlorobenzidine	38.8		58.7	1,170		3.30	#	54-148
2,4-Dichlorophenol	1,150		58.7	1,170		97.7		50-117
Diethyl phthalate	1,190		587	1,170		102		51-136
2,4-Dimethylphenol	1,110		117	1,170	7.9	93.8		28-111
Dimethyl phthalate	1,150		587	1,170		98.1		56-117
2,4-Dinitrophenol	1,550		587	1,170		132	#	10-129
2,4-Dinitrotoluene	1,240		117	1,170		106		38-123
2,6-Dinitrotoluene	1,230		117	1,170		105		56-120
4,6-Dinitro-2-methylphenol	1,000		587	1,170		85.5		10-130
Di-n-butyl phthalate	1,250		587	1,170	17.0	105		51-148
Di-n-octyl phthalate	1,370		587	1,170		117		61-138
Fluoranthene	1,300		58.7	1,170	736	48.0	#	60-130
Fluorene	1,140		58.7	1,170	51.1	92.5		51-116

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike (B1H1001-MS1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Hexachlorobenzene	1,150		58.7	1,170		97.9		55-116
Hexachlorobutadiene	948		58.7	1,170		80.7		47-102
Hexachlorocyclopentadiene	U		587	1,170		NR	#	21-113
Hexachloroethane	813		58.7	1,170		69.2		36-96
Indeno (1,2,3-cd) pyrene	1,620		58.7	1,170	403	104		62-133
Isophorone	1,050		58.7	1,170		89.5		49-103
2-Methylnaphthalene	1,810		58.7	1,170	806	85.8		50-105
2-Methylphenol	1,070		58.7	1,170	17.0	89.9		43-102
3 &/or 4-Methylphenol	3,110		294	1,170	2,130	83.4		46-106
Naphthalene	1,180		58.7	1,170	253	78.8		46-102
2-Nitroaniline	1,230		117	1,170		104		53-124
3-Nitroaniline	76.3		117	1,170		6.50	#	51-122
4-Nitroaniline	334		117	1,170		28.4	#	62-140
Nitrobenzene	970		58.7	1,170		82.6		44-105
2-Nitrophenol	1,010		58.7	1,170		86.0		44-114
4-Nitrophenol	1,500		587	1,170		128		35-138
N-Nitrosodiphenylamine	1,530		58.7	1,170		130	#	56-120
N-Nitrosodi-n-propylamine	971		58.7	1,170		82.7		29-97
Pentachlorophenol	883		117	1,170	94.2	67.2		10-126
Phenanthrene	1,650		58.7	1,170	717	79.8		52-121
Phenol	1,320		58.7	1,170	370	80.8		32-96
Pyrene	1,950		58.7	1,170	1,030	77.8		39-129
1,2,4-Trichlorobenzene	950		58.7	1,170		80.9		24-105
2,4,5-Trichlorophenol	1,210		58.7	1,170		103		52-121
2,4,6-Trichlorophenol	1,200		58.7	1,170		102		48-113

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike Dup (B1H1001-MSD1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	569		864	65.9	38-101
Surr: Phenol-d5	727		864	84.1	42-105
Surr: 2-Chlorophenol-d4	633		864	73.2	40-100
Surr: 1,2-Dichlorobenzene-d4	337		576	58.4	37-100
Surr: Nitrobenzene-d5	416		576	72.2	42-108
Surr: 2-Fluorobiphenyl	500		576	86.8	51-103
Surr: 2,4,6-Tribromophenol	950		864	110	55-115
Surr: Terphenyl-d14	620		576	108	55-125

Matrix Spike Dup (B1H1001-MSD1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acenaphthene	1,070		57.6	1,150	45.4	88.9	34-107	1.88	31
Acenaphthylene	1,040		57.6	1,150		90.5	48-111	1.22	30
Acetophenone	1,000		57.6	1,150	69.2	81.2	36-110	4.49	30
Anthracene	1,300		57.6	1,150	177	97.6	53-123	2.18	30
Atrazine	1,140		57.6	1,150		99.3	63-133	1.60	30
Benzaldehyde	816		115	1,150		70.8	21-102	2.73	30
Benzoic acid	1,950		576	1,150	413	134 #	10-115	12.1	30
Benzo (a) anthracene	1,660		57.6	1,150	692	83.8	58-129	0.44	30
Benzo (a) pyrene	1,710		23.0	1,150	783	80.3	69-125	10.7	30
Benzo (b) fluoranthene	1,650		57.6	1,150	579	93.0	65-126	19.0	30
Benzo (g,h,i) perylene	431		57.6	1,150	170	22.6 #	50-137	11.8	30
Benzo (k) fluoranthene	1,250		57.6	1,150	369	76.7	59-135	11.2	30
Benzyl alcohol	1,020		57.6	1,150		88.7	44-106	4.11	30
1,1'-Biphenyl	1,100		57.6	1,150	51.1	91.4	40-118	4.56	30
Bis(2-chloroethoxy)methane	942		57.6	1,150		81.7	48-103	8.05	30
Bis(2-chloroethyl)ether	808		57.6	1,150		70.1	31-104	2.88	30

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike Dup (B1H1001-MSD1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bis(2-chloroisopropyl)ether	816		57.6	1,150		70.8	36-102	4.12	30
Bis(2-ethylhexyl)phthalate	1,710		576	1,150	291	124	56-153	1.01	30
4-Bromophenyl phenyl ether	1,230		57.6	1,150		107	55-116	3.74	30
Butyl benzyl phthalate	1,500		576	1,150	30.7	127	59-140	5.05	30
Carbazole	1,320		57.6	1,150	116	104	61-133	6.61	30
Caprolactam	1,330		115	1,150		115	48-156	3.09	30
4-Chloroaniline	30.0		57.6	1,150		2.60 #	35-102		30
2-Chloronaphthalene	1,050		57.6	1,150		91.0	48-105	4.81	30
2-Chlorophenol	943		57.6	1,150		81.8	28-94	3.82	37
4-Chlorophenyl phenyl ether	1,130		57.6	1,150		97.8	48-119	0.81	30
4-Chloro-3-methylphenol	1,210		57.6	1,150		105	38-126	3.79	36
Chrysene	1,680		57.6	1,150	764	79.7	58-128	7.06	30
Dibenzofuran	1,150		57.6	1,150	44.3	95.9	50-111	0.57	30
Dibenz (a,h) anthracene	1,560		57.6	1,150	316	108	62-135	9.37	30
1,2-Dichlorobenzene	777		57.6	1,150	7.9	66.7	39-97	2.33	30
1,3-Dichlorobenzene	690		57.6	1,150		59.9	38-95	4.03	30
1,4-Dichlorobenzene	771		57.6	1,150	6.8	66.3	27-83	1.29	36
3,3´-Dichlorobenzidine	40.3		57.6	1,150		3.50 #	54-148	4.00	30
2,4-Dichlorophenol	1,120		57.6	1,150		97.4	50-117	2.19	30
Diethyl phthalate	1,180		576	1,150		102	51-136	1.30	30
2,4-Dimethylphenol	1,160		115	1,150	7.9	100	28-111	4.77	30
Dimethyl phthalate	1,140		576	1,150		98.8	56-117	1.17	30
2,4-Dinitrophenol	1,440		576	1,150		125	10-129	6.94	30
2,4-Dinitrotoluene	1,280		115	1,150		111	38-123	3.18	32
2,6-Dinitrotoluene	1,230		115	1,150		107	56-120	0.09	30
4,6-Dinitro-2-methylphenol	1,010		576	1,150		87.7	10-130	0.66	30
Di-n-butyl phthalate	1,220		576	1,150	17.0	104	51-148	2.17	30
Di-n-octyl phthalate	1,440		576	1,150		125	61-138	4.98	30
Fluoranthene	1,450		57.6	1,150	736	62.1	60-130	11.1	30
Fluorene	1,150		57.6	1,150	51.1	95.1	51-116	0.76	30

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1001 **Sample Type: Solid**

Matrix Spike Dup (B1H1001-MSD1)

Source: 1107052-03 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Hexachlorobenzene	1,120		57.6	1,150		96.8		55-116	3.01		30
Hexachlorobutadiene	882		57.6	1,150		76.5		47-102	7.23		30
Hexachlorocyclopentadiene	U		576	1,150		NR	#	21-113		#	30
Hexachloroethane	774		57.6	1,150		67.2		36-96	4.82		30
Indeno (1,2,3-cd) pyrene	1,460		57.6	1,150	403	92.0		62-133	10.3		30
Isophorone	969		57.6	1,150		84.1		49-103	8.10		30
2-Methylnaphthalene	1,790		57.6	1,150	806	85.5		50-105	1.24		30
2-Methylphenol	1,040		57.6	1,150	17.0	88.8		43-102	3.10		30
3 &/or 4-Methylphenol	3,170		288	1,150	2,130	89.9		46-106	1.82		30
Naphthalene	1,100		57.6	1,150	253	73.8		46-102	6.57		30
2-Nitroaniline	1,290		115	1,150		112		53-124	5.14		30
3-Nitroaniline	213		115	1,150		18.5	#	51-122	94.5	#	30
4-Nitroaniline	538		115	1,150		46.7	#	62-140	47.0	#	30
Nitrobenzene	907		57.6	1,150		78.7		44-105	6.72		30
2-Nitrophenol	932		57.6	1,150		80.9		44-114	7.99		30
4-Nitrophenol	1,660		576	1,150		144	#	35-138	9.96		39
N-Nitrosodiphenylamine	1,550		57.6	1,150		134	#	56-120	1.52		30
N-Nitrosodi-n-propylamine	914		57.6	1,150		79.3		29-97	6.08		33
Pentachlorophenol	899		115	1,150	94.2	69.8		10-126	1.77		45
Phenanthrene	1,690		57.6	1,150	717	84.2		52-121	2.01		30
Phenol	1,290		57.6	1,150	370	80.1		32-96	1.97		38
Pyrene	2,030		57.6	1,150	1,030	86.6		39-129	4.20		34
1,2,4-Trichlorobenzene	871		57.6	1,150		75.6		24-105	8.66		34
2,4,5-Trichlorophenol	1,200		57.6	1,150		104		52-121	0.34		30
2,4,6-Trichlorophenol	1,150		57.6	1,150		99.9		48-113	4.06		30

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

Blank (B1H1901-BLK1)
Prepared: 8/19/2011 Analyzed: 8/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	443		749	59.2	38-101
Surr: Phenol-d5	578		749	77.2	42-105
Surr: 2-Chlorophenol-d4	539		749	72.0	40-100
Surr: 1,2-Dichlorobenzene-d4	383		499	76.6	37-100
Surr: Nitrobenzene-d5	410		499	82.2	42-108
Surr: 2-Fluorobiphenyl	393		499	78.8	51-103
Surr: 2,4,6-Tribromophenol	588		749	78.5	55-115
Surr: Terphenyl-d14	414		499	83.0	55-125

Blank (B1H1901-BLK1)
Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Acenaphthene	U		49.9
Acenaphthylene	U		49.9
Acetophenone	U		49.9
Anthracene	U		49.9
Atrazine	U		49.9
Benzaldehyde	U		99.9
Benzoic acid	U		499
Benzo (a) anthracene	U		49.9
Benzo (a) pyrene	U		49.9
Benzo (b) fluoranthene	U		49.9
Benzo (g,h,i) perylene	U		49.9
Benzo (k) fluoranthene	U		49.9
Benzyl alcohol	U		49.9
1,1'-Biphenyl	U		49.9
Bis(2-chloroethoxy)methane	U		49.9
Bis(2-chloroethyl)ether	U		49.9

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

Blank (B1H1901-BLK1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Bis(2-chloroisopropyl)ether	U		49.9
Bis(2-ethylhexyl)phthalate	U		499
4-Bromophenyl phenyl ether	U		49.9
Butyl benzyl phthalate	U		499
Carbazole	U		49.9
Caprolactam	U		99.9
4-Chloroaniline	U		49.9
2-Chloronaphthalene	U		49.9
2-Chlorophenol	U		49.9
4-Chlorophenyl phenyl ether	U		49.9
4-Chloro-3-methylphenol	U		49.9
Chrysene	U		49.9
Dibenzofuran	U		49.9
Dibenz (a,h) anthracene	U		49.9
1,2-Dichlorobenzene	U		49.9
1,3-Dichlorobenzene	U		49.9
1,4-Dichlorobenzene	U		49.9
3,3´-Dichlorobenzidine	U		49.9
2,4-Dichlorophenol	U		49.9
Diethyl phthalate	U		499
2,4-Dimethylphenol	U		99.9
Dimethyl phthalate	U		499
2,4-Dinitrophenol	U		499
2,4-Dinitrotoluene	U		99.9
2,6-Dinitrotoluene	U		99.9
4,6-Dinitro-2-methylphenol	U		499
Di-n-butyl phthalate	U		499
Di-n-octyl phthalate	U		499
Fluoranthene	U		49.9
Fluorene	U		49.9

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

Blank (B1H1901-BLK1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Hexachlorobenzene	U		49.9
Hexachlorobutadiene	U		49.9
Hexachlorocyclopentadiene	U		499
Hexachloroethane	U		49.9
Indeno (1,2,3-cd) pyrene	U		49.9
Isophorone	U		49.9
2-Methylnaphthalene	U		49.9
2-Methylphenol	U		49.9
3 &/or 4-Methylphenol	U		49.9
Naphthalene	U		49.9
2-Nitroaniline	U		99.9
3-Nitroaniline	U		99.9
4-Nitroaniline	U		99.9
Nitrobenzene	U		49.9
2-Nitrophenol	U		49.9
4-Nitrophenol	U		499
N-Nitrosodiphenylamine	U		49.9
N-Nitrosodi-n-propylamine	U		49.9
Pentachlorophenol	U		99.9
Phenanthrene	U		49.9
Phenol	U		49.9
Pyrene	U		49.9
1,2,4-Trichlorobenzene	U		49.9
2,4,5-Trichlorophenol	U		49.9
2,4,6-Trichlorophenol	U		49.9

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

LCS (B1H1901-BS1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	482		746	64.7	38-101
Surr: Phenol-d5	615		746	82.4	42-105
Surr: 2-Chlorophenol-d4	580		746	77.7	40-100
Surr: 1,2-Dichlorobenzene-d4	395		497	79.4	37-100
Surr: Nitrobenzene-d5	421		497	84.6	42-108
Surr: 2-Fluorobiphenyl	413		497	83.0	51-103
Surr: 2,4,6-Tribromophenol	682		746	91.5	55-115
Surr: Terphenyl-d14	424		497	85.2	55-125

LCS (B1H1901-BS1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	782		49.7	995	78.6	47-101
Acenaphthylene	807		49.7	995	81.1	49-102
Acetophenone	850		49.7	995	85.5	42-100
Anthracene	851		49.7	995	85.6	51-114
Atrazine	1,050		49.7	995	105	61-126
Benzaldehyde	691		99.5	995	69.5	30-100
Benzoic acid	306		497	995	30.8	10-125
Benzo (a) anthracene	996		49.7	995	100	59-121
Benzo (a) pyrene	920		49.7	995	92.5	65-124
Benzo (b) fluoranthene	1,060		49.7	995	106	60-119
Benzo (g,h,i) perylene	350		49.7	995	35.2	# 54-139
Benzo (k) fluoranthene	836		49.7	995	84.1	57-130
Benzyl alcohol	908		49.7	995	91.3	42-102
1,1'-Biphenyl	810		49.7	995	81.4	41-107
Bis(2-chloroethoxy)methane	809		49.7	995	81.3	47-100
Bis(2-chloroethyl)ether	762		49.7	995	76.6	37-100

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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

LCS (B1H1901-BS1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Bis(2-chloroisopropyl)ether	751		49.7	995	75.5	41-100
Bis(2-ethylhexyl)phthalate	1,010		497	995	101	59-146
4-Bromophenyl phenyl ether	868		49.7	995	87.3	50-109
Butyl benzyl phthalate	1,090		497	995	110	65-124
Carbazole	971		49.7	995	97.6	59-124
Caprolactam	1,060		99.5	995	107	55-142
4-Chloroaniline	679		49.7	995	68.3	37-100
2-Chloronaphthalene	809		49.7	995	81.3	45-101
2-Chlorophenol	799		49.7	995	80.3	41-100
4-Chlorophenyl phenyl ether	843		49.7	995	84.8	47-113
4-Chloro-3-methylphenol	869		49.7	995	87.4	47-114
Chrysene	890		49.7	995	89.5	58-122
Dibenzofuran	834		49.7	995	83.9	49-104
Dibenz (a,h) anthracene	1,140		49.7	995	115	61-137
1,2-Dichlorobenzene	776		49.7	995	78.0	35-100
1,3-Dichlorobenzene	697		49.7	995	70.1	36-100
1,4-Dichlorobenzene	775		49.7	995	77.9	32-100
3,3´-Dichlorobenzidine	1,190		49.7	995	120	56-149
2,4-Dichlorophenol	860		49.7	995	86.5	49-101
Diethyl phthalate	965		497	995	97.0	45-136
2,4-Dimethylphenol	636		99.5	995	63.9	26-100
Dimethyl phthalate	874		497	995	87.9	53-111
2,4-Dinitrophenol	1,140		497	995	115	13-127
2,4-Dinitrotoluene	996		99.5	995	100	54-112
2,6-Dinitrotoluene	937		99.5	995	94.2	53-112
4,6-Dinitro-2-methylphenol	970		497	995	97.5	19-136
Di-n-butyl phthalate	1,060		497	995	106	57-139
Di-n-octyl phthalate	1,090		497	995	109	66-127
Fluoranthene	929		49.7	995	93.4	58-120
Fluorene	834		49.7	995	83.9	49-112

Environmental Protection Agency
Region 6 Laboratory
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Semivolatiles by EPA Method 8270 - GC/MS (Low Level) - Quality Control

Batch: B1H1901 **Sample Type: Solid**

LCS (B1H1901-BS1)

Prepared: 8/19/2011 Analyzed: 8/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Hexachlorobenzene	851		49.7	995	85.6	48-111
Hexachlorobutadiene	825		49.7	995	82.9	42-101
Hexachlorocyclopentadiene	1,010		497	995	101	25-108
Hexachloroethane	794		49.7	995	79.8	35-100
Indeno (1,2,3-cd) pyrene	1,100		49.7	995	110	61-137
Isophorone	848		49.7	995	85.3	47-100
2-Methylnaphthalene	836		49.7	995	84.1	47-101
2-Methylphenol	806		49.7	995	81.0	44-100
3 &/or 4-Methylphenol	847		49.7	995	85.2	45-100
Naphthalene	781		49.7	995	78.5	44-100
2-Nitroaniline	960		99.5	995	96.5	53-112
3-Nitroaniline	929		99.5	995	93.4	50-117
4-Nitroaniline	1,090		99.5	995	109	61-137
Nitrobenzene	822		49.7	995	82.6	43-100
2-Nitrophenol	856		49.7	995	86.1	46-101
4-Nitrophenol	1,170		497	995	118	47-130
N-Nitrosodiphenylamine	1,040		49.7	995	104	53-112
N-Nitrosodi-n-propylamine	830		49.7	995	83.4	43-100
Pentachlorophenol	798		99.5	995	80.2	16-122
Phenanthrene	833		49.7	995	83.7	51-113
Phenol	784		49.7	995	78.8	40-101
Pyrene	905		49.7	995	91.0	51-119
1,2,4-Trichlorobenzene	815		49.7	995	81.9	40-100
2,4,5-Trichlorophenol	892		49.7	995	89.7	50-108
2,4,6-Trichlorophenol	860		49.7	995	86.5	48-105

Environmental Protection Agency
Region 6 Laboratory
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Phone:(281)983-2100 Fax:(281)983-2248

Aroclors by EPA Method 8082 - GC/ECD - Quality Control

Batch: B1H1002 **Sample Type: Solid**

Blank (B1H1002-BLK1)
Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	12.0		24.9	48.2	41-112
Surr: Decachlorobiphenyl	15.8		24.9	63.5	49-122

Blank (B1H1002-BLK1)
Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Aroclor-1016	U		19.9
Aroclor-1221	U		39.8
Aroclor-1232	U		19.9
Aroclor-1242	U		19.9
Aroclor-1248	U		19.9
Aroclor-1254	U		19.9
Aroclor-1260	U		19.9
Aroclor-1268	U		19.9

LCS (B1H1002-BS1)
Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	13.8		24.9	55.3	41-112
Surr: Decachlorobiphenyl	26.2		24.9	105	49-122

Environmental Protection Agency
Region 6 Laboratory
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Phone:(281)983-2100 Fax:(281)983-2248

Aroclors by EPA Method 8082 - GC/ECD - Quality Control

Batch: B1H1002 **Sample Type: Solid**

LCS (B1H1002-BS1)

Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aroclor-1268	159		19.9	249	63.9 #	70-130

Matrix Spike (B1H1002-MS1)

Source: 1107052-14 Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	19.5		25.3	76.8	41-112
Surr: Decachlorobiphenyl	34.7		25.3	137 #	49-122

Matrix Spike (B1H1002-MS1)

Source: 1107052-14 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aroclor-1268	210		20.3	253	1.2	82.5	50-150

Matrix Spike Dup (B1H1002-MSD1)

Source: 1107052-14 Prepared: 8/10/2011 Analyzed: 8/18/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	15.6		25.4	61.2	41-112
Surr: Decachlorobiphenyl	26.2		25.4	103	49-122

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Aroclors by EPA Method 8082 - GC/ECD - Quality Control

Batch: B1H1002 **Sample Type: Solid**

Matrix Spike Dup (B1H1002-MSD1)

Source: 1107052-14 Prepared: 8/10/2011 Analyzed: 8/18/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1268	165		20.3	254	1.2	64.5	50-150	24.1	30

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Phone:(281)983-2100 Fax:(281)983-2248

ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL
CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: Dona Park Soil/Sediment Sampling

SAMPLERS: (Signature) N. Navarro
N. Navarro
D. Alaniz

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SVOC (8270)	TPH (8082)					REMARKS
SO-01	7/27/11	0920		X	Right of way near 1265 Dona	2	X	X					Tag 6-400300 ; 6-400301
SO-02	7/27/11	0937		X	East drainage ditch and UpRiver	2	X	X					Tag 6-400302 ; 6-400303
SE-01	7/27/11	0955		X	Surface water flow: over UpRiver	2	X	X					Tag 6-400304 ; 6-400305
SE-02	7/27/11	1010		X	Bar ditch on Up River	2	X	X					Tag 6-400306 ; 6-400307
SO-03	7/27/11	1028		X	Fence line and palm tree	2	X	X					Tag 6-400308 ; 6-400309
SO-04	7/27/11	1043		X	Up River and fire hydrant	2	X	X					Tag 6-400310 ; 6-400311
SO-05	7/27/11	1119		X	Up River puddle area	2	X	X					Tag 6-400312 ; 6-400313
SO-06	7/27/11	1130		X	Up River between Manchester Golla	2	X	X					Tag 6-400314 ; 6-400315
SE-03	7/27/11	1140		X	Manchester and drainage ditch	2	X	X					Tag 6-400316 ; 6-400317
SE-04	7/27/11	1155		X	Manchester depression	2	X	X					Tag 6-400318 ; 6-400319
SE-05	7/27/11	1313		X	Drainage ditch and Golla	2	X	X					Tag 6-400320 ; 6-400321
SO-07	7/27/11	1353		X	UpRiver west of Golla	2	X	X					Tag 6-400322 ; 6-400323
SO-08	7/27/11	1409		X	Up River and Lantana	2	X	X					Tag 6-400324 ; 6-400325
SE-06	7/27/11	1415		X	Up River and Lantana	2	X	X					Tag 6-400326 ; 6-400327
SO-09	7/27/11	1445		X	1221 Golla (vacant lot)	1		X					Tag 6-400328

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by : (Signature)	Date / Time	Received by: (Signature)
Brent Kaufman BKaufman	7/29/11 1353				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by : (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Isaiah Harris	Date / Time 7/29/11 13:53	Remarks Sample Temp: 5°C	

Shipped by: Airbill Number:

EPA 7500-53
(11/96)

Distribution: White Accompanies Shipment; Yellow to Coordinator Field Files; Pink to Report; Goldenrod Returns with Warrant

6-20103

Environmental Protection Agency

Region 6 Laboratory

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Notes and Definitions

RL	The reporting limit for this analyte was raised because absence or presence at the routine or lower value could not be verified"
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
NJ	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.
L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Environmental Protection Agency

Region 6 Laboratory

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AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

APPENDIX C

Field Notes

Field Logbook

For

Encycle/ASARCO Offsite
Soil/Sediment Sampling Event
Up River Road
Corpus Christi, TX
CERCLIS No.: TXN000607159
SSID: AGAV

Prepared by: Bret Kendrick
Site Assessment Manager
U.S.EPA, Region 6

BK 7/26/11

Encycle/ASARCO offsite TXN000607159
Corpus Christi, TX July 26, 2011

1720 Met Omar Valdez of TCEQ at vacant area at the corner of Dona Dr. and Up River Road.

1725 Met Ms. Tammy Foster at same location. Ms Foster represents the Citizens for Environmental Justice (CFEJ) and resides in the Dona Park neighborhood. The purpose for meeting Mr Valdez and Ms Foster is to select the locations for soil and sediment sampling scheduled to begin Wednesday, July 27, 2011. General locations for soil and sediment samples are described below:

(1) Soil near palm tree on north side of Up River Road near the Encycle fence line. This location will be used to test for the potential for aerial deposition of contaminants from the degradation of the Galveston material and was selected by Mr. Valdez.

BK

BK
7/20/11

Encycle/ASARCO Offsite
Corpus Christi, TX

TXN000607159
July 26, 2011

(2) Soil north of fire hydrant on north side of Up River Road near the Encycle Fenceline. This location will be used to test for the possible aerial deposition of contaminants from the degradation of the Gulbarco material and was selected by Mr. Valdez

(3) Soil located east of one entry/drive where runoff from the Encycle facility pools on the north side of Up River Road. This location will be used to test for the possible migration via surface water runoff of contaminants from the degradation of Gulbarco material and was selected by Ms. Foster

(4) Sediment located in the surface water drainage along Up River Road, west of the least drive (east end) into the Encycle property. This location will be used to test for the possible migration via surface water runoff of contaminants from the degradation of Gulbarco material and was selected by Mr. Valdez.

TK

BK
7/26/11

Encycle/ASARCO Office TXN000607159
Corpus Christi, TX July 26, 2011

1750 At this time, Ms Foster stated that she needed to leave, but suggested another sample be located where surface water runoff on the north side of Up River Road crosses over the road and continues to flow downgradient on the south side of Up River Road.

(15) Sediment located in surface water drainage pathway along north side of Up River Road near the point where the water ~~crossed~~ crosses the road. This location would be used to test for the possible migration via surface water runoff of contaminants from the disposal of Galbestos material and was suggested by Ms Foster and selected by Mr. Valdez.

(16) Sediment located in surface water drainage pathway along south side of Up River Road same as #5 described above. Suggested by Ms Foster and selected by Mr Valdez.

BK

(8)

(9)

Encycle/ASARCO Offsite TXN000607159
Corpus Christi, TX July 26, 2011

(7) Soil located on south side of Up River Road near the intersection where the drainage ditch that runs along east side of Dona Park ~~TX~~ meets the drainage ditch that parallels Up River Road. This location will be used to test for migration of contaminants during flood events and was suggested by Mr. Valdez.

(8) Soil located in right of way near residence at 1265 Dona Drive. This location will be used to test possible aerial deposition of contaminants from the degradation of Coalbuster material and was selected by Mr Valdez.

(9) Sediment located in low area near Manchester Ave and the drainage ditch that runs along the north side of the Dona Park neighborhood. This location will be used to test the possible migration of contaminants from deteriorating Coalbuster material via the surface water pathway during flood events and was selected by Mr. Valdez.

B 7/26/11

(10)

TBK 7/26/11

(11)

Encycle/ASARCO Offsite TXN000607159
Corpus Christi, TX July 26, 2011

(10) Sediment located in drainage ditch that runs along north side of Dona Park neighborhood and Golla Drive. This location will be used to test the possible migration of contaminants from deteriorating Gulbertson material via the surface water pathway during flood events and was selected by Mr. Valdez.

1810 Met with residents that currently reside at 1265 Golla Drive. These residents had questions and concerns regarding the removal action scheduled for their backyard. Mr Valdez and I spoke at length with the residents to answer their questions and explain the removal process.

(11) Soil located on south side of Up River Road near the fenceline of a vacant, parking area (west side of Golla Drive). This area may receive surface water runoff from the Encycle property during heavy rain events.

TBK

(12)

(13)

Encycle/ASARCO Corpus Christi, TX — TXN000607159

July 26, 2011

(12) Soil located near the intersection between Up River Road and Lantana. This location is upgradient and northwest of the Encycle property and will serve as a background location. This location was selected by Mr. Valdez.

(13) Sediment located near the intersection between Up River Road and Lantana. This location will serve as a background location and was selected by Mr. Valdez.

1855 Mr. Valdez stated that the removal contractors would be meeting at 7:30 near the TCEQ permanent air monitoring station the next morning. The sampling contractors would be meeting at 8:30.

1900 Departed site area.

End of Day 7/26/11

(14)

BKG 7/27/11

(15)

Encycle/ASARCO Offsite TXN000607159
Corpus Christi, TX July 27, 2011

0720 Arrive at the project site. Weather was warm (approx. 85° F) with a slight breeze. Some high altitude clouds were present.

0724 Craig Watts from TCEQ arrived at the site. Mr. Watts will be responsible for the soil removal activities associated with the contaminated residential yards in the Dona Park neighborhood.

0733 Omar Valdez arrived at the project site.

0736 Jim Haley of TCEQ arrived on the project site.

0752 The Weston contractor crew arrived and began setting up equipment at the permanent TCEQ air monitoring station. The equipment will support the removal activities.

0800 Mr. Haley departed the project site location.

0830 Weston contractors scheduled to support soil sampling arrived at the site.

BKG

TBlank
7/27/11

Enviro/ASARCO offsite TXN000607159
Corpus Christi, TX July 27, 2011

Deborah Alaniz from Union and National Marine from Water will be collecting the soil and sediment samples

0855 Held a Health and Safety briefing for the day's activities

0903 Arrive at SO-01 location in the right of way near 1245 Dona Drive

0908 Photo 1 of location SO-01 facing south

0920 Collected SO-01.

0922 Arrive at SO-02 near east drainage ditch and Up River Road.

0925 Photo 2 of location SO-02 facing East

0937 Collected sample SO-02

0945 Arrive at SE-01 location where surface water crosses over Up River Road (North Side)

0950 Photo 3 of location SE-01 facing east

0951 Photo 4 of location SE-01 facing west

0955 Collected sample SE-01

1000 Arrive at SE-02 location in bar ditch on Up River Road across from confluence of east drainage ditch and Up River.

TBlank

Enviro/ASARCO Office TXN000607159
Corpus Christi, TX July 27, 2011

1005 Photo 5 of location SE-02 facing west
1010 Collected sample SE-02
1015 Arrive at location SO-03 located near point tree along Corrosion (Up River Road)
1016 Photo 6 of location SO-03 facing east
1017 Photo 7 of location SO-03 facing north
1028 Collected sample SO-03
1033 Arrive at location SO-04 located on Up River Road near fire hydrant
1035 Photo 8 of SO-04 facing east
1036 Photo 9 of SO-04 facing north
1043 Collected sample SO-04
1050 Weston crew departs site to take a short break. Arrive at location SO-05 located on Up River Road where storm water reportedly flows off site and puddles next to the road. A duplicate sample, SO-06 will be collected at this location
1105 Weston team arrives back at site
1115 Photo 10 for locations SO-05 + SO-06
1119 Collected sample SO-05 and SO-06
Sample time assigned to SO-06 is 1130 hours

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1125 Arrive at SE-03 location in depression along drainage ditch and Manchester adjacent to Dona Park neighborhood. Duplicate sample SE-04 will be collected at this location.

1128 Photo 11 of SE-03 (SE-04) facing east

1140 Collected sample SE-03. Sample SE-04 (duplicate) will be designated as collected at 1158 hours.

1145 Depart site for lunch

1300 Return to site from lunch

1304 Photo 12 of location SE-05 facing South. SE-05 is located in the drainage ditch and Gollin along north side of Dona Park.

1313 Collected SE-05. TCEQ collected a split sample and field duplicate.

1317 Omar Valdez spoke to Weston contractor and stated that the owner of the former Circle K had concerns about soil. He asked the team to meet him at that location for a possible location for a soil sample.

BKarl

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1322 Arrive at former Circle K to assist Mr Valdez.
1342 Mr Valdez called to say he was dispatched and would call back when he could meet the team.
1345 Arrive at sample location SO-07 along Up River west of Gollin.
1347 Photo 13 of sample location SO-07 facing west
1353 Collected sample SO-07.
1358 Arrive at background location where background soil (SO-08) and background sediment (SE-06) will be collected location is near the intersection between Up River Road and Lantana
1402 Photo 14 of background location facing north
1409 Collected sample SO-08
1415 Collected sample SE-06
1420 Arrive back at Former Circle K property. Owner was not present so Mr Valdez said to forget about collecting a sample at this property.

BK

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Mr. Valdez discussed grabbing one more sample from the Down Park neighborhood which would be a background. TCEQ had collected a background sample from this location ~~for~~ DK during a previous organic sampling conducted at the former Encycle property, but the TCEQ sample had not been analyzed for Aroclor 1268

1430 Arrive at vacant lot to collect an additional sample from the soil. Sample SO-09 will be the designation of the additional sample.

1445 Collected sample SO-09

1448 Photo 15 of SO-09 location at 1221 Golla.

1450 Met with one resident to discuss the soil sampling, removal (past + present), the clearing of the fire lane by the City of Corpus Christi and other potential environmental and health issues. The resident has a basic distrust of the State of Texas including TCEQ and TDSHS.

BK

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I stressed to the resident that EPA has partnered with TCEQ in the work that has been conducted in the neighborhood and continues to be conducted and that their actions have been consistent with EPA policy and practices.

1611 Completed sampling activities with regards to sample SO-09. Weston sampling personnel signed the chain of custody form. I will determine the GPS coordinates for each sample location tomorrow and email those coordinates to Weston.

1620 Spoke with Omar Valdez regarding my schedule. I can either transport the samples to the Houston lab tomorrow (Thursday) or stay on and transport the samples on Friday as originally planned. Mr. Valdez requested the samples be transported on Friday.

1630 Depart site

End of Day

TSKelly

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0745 Arrive at site. Weather was a slight breeze out of Southeast, approx 82°F, and sunny with some scattered clouds. Today's activities will include collecting GPS location for each sample collected yesterday. A Garmin GPS III Plus will be used to collect GPS location data. GPS data is presented in the table below: (WGS 84)

Time	Sample	Latitude	Longitude	HPE	PDOP
0828	SO-01	N27°48'37.6"	W97°27'46.9"	13 ft	1.1
0838	SO-02	N27°48'39.6"	W97°27'42.6"	10 ft	1.0
0843	SE-01	N27°48'39.0"	W97°27'37.2"	11 ft	1.0
0846	SE-02	N27°48'40.2"	W97°27'41.5"	11 ft	1.2
0850	SO-03	N27°48'41.2"	W97°27'44.6"	13 ft	1.0
0855	SO-04	N27°48'41.7"	W97°27'46.5	15 ft	1.1
0900	SO-05 SO-06	N27°48'42.8"	W97°27'50.9"	11 ft	0.9
0905	SE-03 SE-04	N27°48'39.2"	W97°27'50.1"	17 ft	1.5
0910	SE-05	N27°48'40.6"	W97°27'54.5"	13 ft	1.4
0915	SO-07	N27°48'43.0"	W97°27'54.3"	11 ft	0.9
0920	SO-08 SE-06	N27°48'47.2"	W97°28'12.5"	12 ft	1.0
0925	SO-09	N27°48'35.2"	W97°27'57.6"	15 ft	1.6

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0945 Observed the on-site demolition activities
1100 Met with Craig Watts and remediation location. Observed activities. Craig Watts informed me that Owen Valdez was meeting with Encycle trustee regarding Tropical Storm Don which is expected to make landfall near Corpus Christi Friday evening.
1200 Lunch
1315 Return to site. Observed demolition activities
1430 Went to residential remediation location Owen Valdez and Craig Watts were on a conference call. Went back to observe demolition activities.
1515 Met with Owen Valdez and Craig Watts. Discussed current state of activities
1545 Departed site to prep samples for delivery to Houston lab tomorrow.

— End of Day —

B Kendall