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 ----------Encycle

Sample Collection Date(s)-- 06/16/11

Contact---------- Noel Bennett (6PD-F)

Report Date---------- 08/04/11

Project #---------- 11RCRA176

Work Order(s)---------- 1106038

Analyses included in this report:

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

Report Narrative

Organic analysis:

Severe matrix interferences were found in all samples. Most analytes are qualified as estimated due to problems encountered.

Semi-volatiles:

Benzaldehyde, Benzoic acid and Carbazole, where reported, are qualified as estimated due to standard stability and/or chromatography problems with calibration.

Semi-volatile soils/batch B1F2301:

The surrogate Terphenyl-d14 fails high in all three samples, MS and MSD because the associated internal standard (ISTD) area is low. Additionally, the surrogate 1,2-Dichlorobenzene-d4 fails low in sample 1106038-02, and the surrogate 2,4,6-Tribromophenol fails high in sample 1106038-06. Targets associated with failing ISTDs are qualified as estimated in the three samples.

Report Narrative (cont'd)

Two analytes fail high in the BS but were not found in any samples.

There were significant recovery and RPD failures in the MS and MSD. Most compounds detected in source sample 1106038-01 were found at much higher concentrations in the MS and much lower concentrations in the MSD, resulting in multiple recovery and RPD failures. All of those analytes are qualified as estimated in the source sample. Two analytes were not recovered in the MS/MSD and are qualified as rejected in the source (3,3'-Dichlorobenzidine and Hexachlorocyclopentadiene).

Semi-volatile solids/batch B1F2901 (building materials):

One analyte fails low in the BS but was not found in any samples.

Caulk (1106038-04):

3-and/or4-Methylphenol is tentatively identified in sample 1106038-04 because a matching spectrum could not be obtained.

The surrogates 2,4,6-Tribromophenol and Terphenyl-d14 fail high in the sample, MS and MSD because the associated ISTD area is low. Additionally, the surrogate 1,2-Dichlorobenzene-d4 fails low in the MS. Targets associated with failing ISTDs are qualified as estimated in the sample.

There were significant recovery failures in the MS and MSD. Analytes that fail recoveries and were present in the source sample 1106038-04 are qualified as estimated. Three analytes were not recovered in the MS/MSD and are qualified as rejected in the source (4-Chloroaniline, 3,3'-Dichlorobenzidine, and 4-Nitroaniline). Five reporting limits (RLs) were raised in the source sample due to low recoveries in the MS/MSD. RPDs that fail were not detected in the source sample or already qualified as rejected.

Felt (1106038-03 and 1106038-05):

Caprolactam is tentatively identified in sample 1106038-05 because a matching spectrum could not be obtained.

The surrogate Terphenyl-d14 fails high in both samples, MS and MSD because the associated ISTD area is low. Additionally, the surrogate 2,4,6-Tribromohenol fails high in 1106038-05, MS, and MSD because the ISTD fails low. Targets associated with failing ISTDs are qualified as estimated in both samples.

There were significant recovery failures in the MS and MSD. Because sample 1106038-03 was a building material similar to source sample 1106038-05, QC failures in the MS/MSD were applied to that sample also. Analytes that fail recoveries in the MS/MSD and were present in the samples are qualified as estimated (Except for Fluoranthene which marginally fails in MS2). Five analytes had very low or no recovery in the MS/MSD and are qualified as rejected in the samples (4-Chloroaniline, 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene, 3-Nitroaniline, and 4-Nitroaniline). One RL was raised in sample 1106038-03 due to low recoveries in the MS/MSD. RPDs that fail were not detected in the samples or already qualified as estimated or rejected.

Report Narrative (cont'd)

PCBs:

Most Aroclors are qualified as estimated due to interferences from the matrix as well as interferences from other Aroclors present. Additionally, some Aroclors are also tentatively identified because the pattern was difficult to match due to the interferences.

The surrogate DCB fails high in samples 1106038-01, 1106038-03, 1106038-06 and B1F2302-BS1/MS1/MSD1. The high failure is believed to be due to the presence of Aroclor 1268 which contains this congener. This surrogate also fails low in sample 1106038-04 and B1F3001-MS2/MSD2. Aroclor 1268 fails low in B1F3001-MS2/MSD2. The low failures are believed to be caused by matrix effects in the instrument that caused all calibration standards to fail low after analysis. The samples were re-analyzed with the same results. Aroclor 1268 was not found in the source sample for B1F3001-MS2/MSD2 at > 1/2 the RL.

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: Encycle Project Number: 11RCRA176

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

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
EPA-SE-08	1106038-01	Solid	6/16/11 11:30	06/17/11 07:35
SS-SE-07	1106038-02	Solid	6/16/11 14:40	06/17/11 07:35
SS-GM-01	1106038-03	Solid	6/16/11 15:25	06/17/11 07:35
EPA-GM-04	1106038-04	Solid	6/16/11 15:55	06/17/11 07:35
EPA-GM-05	1106038-05	Solid	6/16/11 16:15	06/17/11 07:35
SS-SE-03	1106038-06	Solid	6/16/11 16:45	06/17/11 07:35

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

Lab ID: 1106038-01 **Station ID: EPA-SE-08**

Batch: B1F2301 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 10.197 g Sample Qualifiers:
%Solids: 80.52

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	700		76.7	38-101	06/23/11	06/23/11
Surr: Phenol-d5	857		93.9	42-105	"	"
Surr: 2-Chlorophenol-d4	734		80.4	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	391		64.2	37-100	"	"
Surr: Nitrobenzene-d5	514		84.4	42-108	"	"
Surr: 2-Fluorobiphenyl	616		101	51-103	"	"
Surr: 2,4,6-Tribromophenol	1,040		114	55-115	"	"
Surr: Terphenyl-d14	995		163 #	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	**219**		60.9	1	06/23/11	06/23/11
Acenaphthylene (208-96-8)	U		60.9	"	"	"
Acetophenone (98-86-2)	U		60.9	"	"	"
Anthracene (120-12-7)	**536**	**J**	244	10	"	06/23/11
Atrazine (1912-24-9)	U		60.9	1	"	06/23/11
Benzaldehyde (100-52-7)	U		122	"	"	"
Benzoic acid (65-85-0)	**1,010**	**J**	609	"	"	"
Benzo (a) anthracene (56-55-3)	**2,970**	**J**	609	10	"	06/23/11
Benzo (a) pyrene (50-32-8)	**6,270**	**J**	609	"	"	"
Benzo (b) fluoranthene (205-99-2)	**8,550**	**J**	1,220	20	"	07/05/11
Benzo (g,h,i) perylene (191-24-2)	**5,800**	**J**	609	10	"	06/23/11
Benzo (k) fluoranthene (207-08-9)	**6,260**	**J**	1,220	20	"	07/05/11
Benzyl alcohol (100-51-6)	U		60.9	1	"	06/23/11
1,1'-Biphenyl (92-52-4)	U		60.9	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		60.9	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		60.9	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		60.9	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**1,310**	**J**	609	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		60.9	"	"	"
Butyl benzyl phthalate (85-68-7)	U		609	"	"	"
Carbazole (86-74-8)	**2,000**	**J**	60.9	"	"	"
Caprolactam (105-60-2)	U		122	"	"	"
4-Chloroaniline (106-47-8)	U		60.9	"	"	"

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

Lab ID: 1106038-01 **Station ID: EPA-SE-08**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.197 g
%Solids: 80.52

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chloronaphthalene (91-58-7)	U		60.9	1	06/23/11	06/23/11
2-Chlorophenol (95-57-8)	U		60.9	"	"	"
4-Chlorophenyl phenyl ether (7005-72-3)	U		60.9	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		60.9	"	"	"
Chrysene (218-01-9)	**7,750**	**J**	609	10	"	06/23/11
Dibenzofuran (132-64-9)	**158**		60.9	1	"	06/23/11
Dibenz (a,h) anthracene (53-70-3)	**1,060**	**J**	609	10	"	06/23/11
1,2-Dichlorobenzene (95-50-1)	U		60.9	1	"	06/23/11
1,3-Dichlorobenzene (541-73-1)	U		60.9	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		60.9	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	R	60.9	"	"	"
2,4-Dichlorophenol (120-83-2)	U		60.9	"	"	"
Diethyl phthalate (84-66-2)	U		609	"	"	"
2,4-Dimethylphenol (105-67-9)	U		122	"	"	"
Dimethyl phthalate (131-11-3)	U		609	"	"	"
2,4-Dinitrophenol (51-28-5)	U		609	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		122	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		122	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		609	"	"	"
Di-n-butyl phthalate (84-74-2)	U		609	"	"	"
Di-n-octyl phthalate (117-84-0)	U		609	"	"	"
Fluoranthene (206-44-0)	**9,740**	**J**	609	10	"	06/23/11
Fluorene (86-73-7)	**145**		60.9	1	"	06/23/11
Hexachlorobenzene (118-74-1)	U		60.9	"	"	"
Hexachlorobutadiene (87-68-3)	U		60.9	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	609	"	"	"
Hexachloroethane (67-72-1)	U		60.9	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**4,230**	**J**	609	10	"	06/23/11
Isophorone (78-59-1)	U		60.9	1	"	06/23/11
2-Methylnaphthalene (91-57-6)	**177**		60.9	"	"	"
2-Methylphenol (95-48-7)	U		60.9	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		60.9	"	"	"
Naphthalene (91-20-3)	**177**		60.9	"	"	"
2-Nitroaniline (88-74-4)	U		122	"	"	"
3-Nitroaniline (99-09-2)	U		122	"	"	"
4-Nitroaniline (100-01-6)	U		122	"	"	"

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

Lab ID: 1106038-01 **Station ID: EPA-SE-08**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.197 g
%Solids: 80.52

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		60.9	1	06/23/11	06/23/11
2-Nitrophenol (88-75-5)	U		60.9	"	"	"
4-Nitrophenol (100-02-7)	U		609	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		60.9	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		60.9	"	"	"
Pentachlorophenol (87-86-5)	U		122	"	"	"
Phenanthrene (85-01-8)	**5,010**	**J**	609	10	"	06/23/11
Phenol (108-95-2)	U		60.9	1	"	06/23/11
Pyrene (129-00-0)	**11,100**	**J**	609	10	"	06/23/11
1,2,4-Trichlorobenzene (120-82-1)	U		60.9	1	"	06/23/11
2,4,5-Trichlorophenol (95-95-4)	U		60.9	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		60.9	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-01 **Station ID: EPA-SE-08**

Batch: B1F2302
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.327 g
%Solids: 80.52

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	27.8		92.4	41-112	06/23/11	06/28/11
Surr: Decachlorobiphenyl	45.0		150 #	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	06/23/11	06/28/11
Aroclor-1221 (11104-28-2)	U		48.1	"	"	"
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)	**83.8**		24.1	"	"	07/12/11
Aroclor-1260 (11096-82-5)	**101**	**NJ**	24.1	"	"	06/28/11
Aroclor-1268 (11100-14-4)	U		24.1	"	"	"

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

Lab ID: 1106038-02 **Station ID: SS-SE-07**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.05 g
%Solids: 75.20

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	388		39.1	38-101	06/23/11	07/05/11
Surr: Phenol-d5	590		59.5	42-105	"	"
Surr: 2-Chlorophenol-d4	471		47.5	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	220		33.2 #	37-100	"	"
Surr: Nitrobenzene-d5	300		45.4	42-108	"	"
Surr: 2-Fluorobiphenyl	499		75.4	51-103	"	"
Surr: 2,4,6-Tribromophenol	1,020		103	55-115	"	"
Surr: Terphenyl-d14	881		133 #	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	**95.3**		66.2	1	06/23/11	07/05/11
Acenaphthylene (208-96-8)	U		66.2	"	"	"
Acetophenone (98-86-2)	U		66.2	"	"	"
Anthracene (120-12-7)	**269**		66.2	"	"	"
Atrazine (1912-24-9)	U		66.2	"	"	"
Benzaldehyde (100-52-7)	U		132	"	"	"
Benzoic acid (65-85-0)	U		662	"	"	"
Benzo (a) anthracene (56-55-3)	**2,500**	**J**	66.2	"	"	"
Benzo (a) pyrene (50-32-8)	**3,530**	**J**	662	10	"	06/23/11
Benzo (b) fluoranthene (205-99-2)	**4,390**	**J**	1,320	20	"	07/05/11
Benzo (g,h,i) perylene (191-24-2)	**1,560**	**J**	66.2	1	"	07/05/11
Benzo (k) fluoranthene (207-08-9)	**3,180**	**J**	1,320	20	"	07/05/11
Benzyl alcohol (100-51-6)	**498**		66.2	1	"	07/05/11
1,1'-Biphenyl (92-52-4)	U		66.2	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		66.2	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		66.2	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		66.2	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		662	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		66.2	"	"	"
Butyl benzyl phthalate (85-68-7)	**1,400**	**J**	662	"	"	"
Carbazole (86-74-8)	**413**	**J**	66.2	"	"	"
Caprolactam (105-60-2)	U		132	"	"	"
4-Chloroaniline (106-47-8)	U		66.2	"	"	"
2-Chloronaphthalene (91-58-7)	U		66.2	"	"	"

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

Lab ID: 1106038-02 **Station ID: SS-SE-07**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.05 g
%Solids: 75.20

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		66.2	1	06/23/11	07/05/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		66.2	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		66.2	"	"	"
Chrysene (218-01-9)	**4,020**	**J**	662	10	"	06/23/11
Dibenzofuran (132-64-9)	**87.3**		66.2	1	"	07/05/11
Dibenz (a,h) anthracene (53-70-3)	**733**	**J**	66.2	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		66.2	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		66.2	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		66.2	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U		66.2	"	"	"
2,4-Dichlorophenol (120-83-2)	U		66.2	"	"	"
Diethyl phthalate (84-66-2)	U		662	"	"	"
2,4-Dimethylphenol (105-67-9)	U		132	"	"	"
Dimethyl phthalate (131-11-3)	U		662	"	"	"
2,4-Dinitrophenol (51-28-5)	U		662	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		132	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		132	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		662	"	"	"
Di-n-butyl phthalate (84-74-2)	U		662	"	"	"
Di-n-octyl phthalate (117-84-0)	U		662	"	"	"
Fluoranthene (206-44-0)	**5,910**		662	10	"	06/23/11
Fluorene (86-73-7)	**70.1**		66.2	1	"	07/05/11
Hexachlorobenzene (118-74-1)	U		66.2	"	"	"
Hexachlorobutadiene (87-68-3)	U		66.2	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		662	"	"	"
Hexachloroethane (67-72-1)	U		66.2	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**1,540**	**J**	66.2	"	"	"
Isophorone (78-59-1)	U		66.2	"	"	"
2-Methylnaphthalene (91-57-6)	**78.1**		66.2	"	"	"
2-Methylphenol (95-48-7)	U		66.2	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		66.2	"	"	"
Naphthalene (91-20-3)	**72.8**		66.2	"	"	"
2-Nitroaniline (88-74-4)	U		132	"	"	"
3-Nitroaniline (99-09-2)	U		132	"	"	"
4-Nitroaniline (100-01-6)	U		132	"	"	"
Nitrobenzene (98-95-3)	U		66.2	"	"	"

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

Lab ID: 1106038-02 **Station ID: SS-SE-07**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.05 g
%Solids: 75.20

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		66.2	1	06/23/11	07/05/11
4-Nitrophenol (100-02-7)	U		662	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		66.2	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		66.2	"	"	"
Pentachlorophenol (87-86-5)	U		132	"	"	"
Phenanthrene (85-01-8)	**3,640**		662	10	"	06/23/11
Phenol (108-95-2)	U		66.2	1	"	07/05/11
Pyrene (129-00-0)	**7,780**	**J**	662	10	"	06/23/11
1,2,4-Trichlorobenzene (120-82-1)	U		66.2	1	"	07/05/11
2,4,5-Trichlorophenol (95-95-4)	U		66.2	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		66.2	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-02 **Station ID: SS-SE-07**

Batch: B1F2302
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.448 g
%Solids: 75.20

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	28.6		89.9	41-112	06/23/11	06/28/11
Surr: Decachlorobiphenyl	24.9		78.3	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		25.5	1	06/23/11	06/28/11
Aroclor-1221 (11104-28-2)	U		50.9	"	"	"
Aroclor-1232 (11141-16-5)	U		25.5	"	"	"
Aroclor-1242 (53469-21-9)	U		25.5	"	"	"
Aroclor-1248 (12672-29-6)	U		25.5	"	"	"
Aroclor-1254 (11097-69-1)	**27.0**		25.5	"	"	07/12/11
Aroclor-1260 (11096-82-5)	**35.9**	**NJ**	25.5	"	"	06/28/11
Aroclor-1268 (11100-14-4)	U		25.5	"	"	"

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

Lab ID: 1106038-03 **Station ID: SS-GM-01**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.969 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	3,930		50.8	38-101	06/29/11	07/05/11
Surr: Phenol-d5	5,250		67.9	42-105	"	"
Surr: 2-Chlorophenol-d4	4,980		64.4	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	2,720		52.8	37-100	"	"
Surr: Nitrobenzene-d5	3,700		71.8	42-108	"	"
Surr: 2-Fluorobiphenyl	4,340		84.2	51-103	"	"
Surr: 2,4,6-Tribromophenol	8,750		113	55-115	"	"
Surr: Terphenyl-d14	8,340		162 #	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		516	1	06/29/11	07/05/11
Acenaphthylene (208-96-8)	U		516	"	"	"
Acetophenone (98-86-2)	U		516	"	"	"
Anthracene (120-12-7)	U		516	"	"	"
Atrazine (1912-24-9)	U		516	"	"	"
Benzaldehyde (100-52-7)	U		1,030	"	"	"
Benzoic acid (65-85-0)	U		5,160	"	"	"
Benzo (a) anthracene (56-55-3)	U		516	"	"	"
Benzo (a) pyrene (50-32-8)	U		516	"	"	"
Benzo (b) fluoranthene (205-99-2)	**1,540**	**J**	516	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	1,550	"	"	"
Benzo (k) fluoranthene (207-08-9)	**857**	**J**	516	"	"	"
Benzyl alcohol (100-51-6)	U		516	"	"	"
1,1'-Biphenyl (92-52-4)	U		516	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		516	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		516	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		516	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		5,160	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		516	"	"	"
Butyl benzyl phthalate (85-68-7)	U		5,160	"	"	"
Carbazole (86-74-8)	U		516	"	"	"
Caprolactam (105-60-2)	U		1,030	"	"	"
4-Chloroaniline (106-47-8)	U	R	516	"	"	"
2-Chloronaphthalene (91-58-7)	U		516	"	"	"

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

Lab ID: 1106038-03 **Station ID: SS-GM-01**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.969 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		516	1	06/29/11	07/05/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		516	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		516	"	"	"
Chrysene (218-01-9)	**2,470**	**J**	516	"	"	"
Dibenzofuran (132-64-9)	U		516	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		516	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		516	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		516	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		516	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	R	516	"	"	"
2,4-Dichlorophenol (120-83-2)	U		516	"	"	"
Diethyl phthalate (84-66-2)	U		5,160	"	"	"
2,4-Dimethylphenol (105-67-9)	U		1,030	"	"	"
Dimethyl phthalate (131-11-3)	U		5,160	"	"	"
2,4-Dinitrophenol (51-28-5)	U		5,160	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		1,030	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		1,030	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		5,160	"	"	"
Di-n-butyl phthalate (84-74-2)	U		5,160	"	"	"
Di-n-octyl phthalate (117-84-0)	U		5,160	"	"	"
Fluoranthene (206-44-0)	**1,060**		516	"	"	"
Fluorene (86-73-7)	U		516	"	"	"
Hexachlorobenzene (118-74-1)	U		516	"	"	"
Hexachlorobutadiene (87-68-3)	U		516	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	5,160	"	"	"
Hexachloroethane (67-72-1)	U		516	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		516	"	"	"
Isophorone (78-59-1)	U		516	"	"	"
2-Methylnaphthalene (91-57-6)	U		516	"	"	"
2-Methylphenol (95-48-7)	U		516	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		516	"	"	"
Naphthalene (91-20-3)	U		516	"	"	"
2-Nitroaniline (88-74-4)	U		1,030	"	"	"
3-Nitroaniline (99-09-2)	U	R	1,030	"	"	"
4-Nitroaniline (100-01-6)	U	R	1,030	"	"	"
Nitrobenzene (98-95-3)	U		516	"	"	"

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

Lab ID: 1106038-03 **Station ID: SS-GM-01**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.969 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		516	1	06/29/11	07/05/11
4-Nitrophenol (100-02-7)	U		5,160	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		516	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		516	"	"	"
Pentachlorophenol (87-86-5)	U		1,030	"	"	"
Phenanthrene (85-01-8)	**578**		516	"	"	"
Phenol (108-95-2)	U		516	"	"	"
Pyrene (129-00-0)	**1,850**	**J**	516	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		516	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		516	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		516	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-03 **Station ID: SS-GM-01**

Batch: B1F3001 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 5.078 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	529		89.6	41-112	06/30/11	07/20/11
Surr: Decachlorobiphenyl	744		126 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		394	10	06/30/11	07/20/11
Aroclor-1221 (11104-28-2)	U		788	"	"	"
Aroclor-1232 (11141-16-5)	U		394	"	"	"
Aroclor-1242 (53469-21-9)	U		394	"	"	"
Aroclor-1248 (12672-29-6)	U		394	"	"	"
Aroclor-1254 (11097-69-1)	**408**	**NJ**	394	"	"	"
Aroclor-1260 (11096-82-5)	**955**	**NJ**	394	"	"	"
Aroclor-1268 (11100-14-4)	**448**	**J**	394	"	"	"

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

Lab ID: 1106038-04 **Station ID: EPA-GM-04**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 2.943 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	1,540		60.4	38-101	06/29/11	07/05/11
Surr: Phenol-d5	2,090		82.0	42-105	"	"
Surr: 2-Chlorophenol-d4	1,540		60.5	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	843		49.6	37-100	"	"
Surr: Nitrobenzene-d5	1,260		74.0	42-108	"	"
Surr: 2-Fluorobiphenyl	1,180		69.6	51-103	"	"
Surr: 2,4,6-Tribromophenol	4,530		178 #	55-115	"	"
Surr: Terphenyl-d14	2,550		150 #	55-125	"	07/05/11

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		170	1	06/29/11	07/05/11
Acenaphthylene (208-96-8)	U		170	"	"	"
Acetophenone (98-86-2)	**1,460**		170	"	"	"
Anthracene (120-12-7)	U		170	"	"	"
Atrazine (1912-24-9)	U		1,700	10	"	07/05/11
Benzaldehyde (100-52-7)	**1,400**	**J**	340	1	"	07/05/11
Benzoic acid (65-85-0)	**14,700**	**J**	13,600	10	"	07/05/11
Benzo (a) anthracene (56-55-3)	U		170	1	"	07/05/11
Benzo (a) pyrene (50-32-8)	U		170	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		170	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U	RL	510	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		170	"	"	"
Benzyl alcohol (100-51-6)	U		170	"	"	"
1,1'-Biphenyl (92-52-4)	U		170	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		170	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		170	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		170	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		1,700	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		170	"	"	"
Butyl benzyl phthalate (85-68-7)	U		1,700	"	"	"
Carbazole (86-74-8)	U		170	"	"	"
Caprolactam (105-60-2)	U	RL	680	"	"	"
4-Chloroaniline (106-47-8)	U	R	170	"	"	"
2-Chloronaphthalene (91-58-7)	U		170	"	"	"

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

Lab ID: 1106038-04 **Station ID: EPA-GM-04**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 2.943 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		170	1	06/29/11	07/05/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		170	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		170	"	"	"
Chrysene (218-01-9)	U		170	"	"	"
Dibenzofuran (132-64-9)	U		170	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		170	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	RL	510	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		170	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		170	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	R	170	"	"	"
2,4-Dichlorophenol (120-83-2)	U		170	"	"	"
Diethyl phthalate (84-66-2)	U		1,700	"	"	"
2,4-Dimethylphenol (105-67-9)	U		340	"	"	"
Dimethyl phthalate (131-11-3)	U		1,700	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,700	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		340	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		340	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,700	"	"	"
Di-n-butyl phthalate (84-74-2)	U		1,700	"	"	"
Di-n-octyl phthalate (117-84-0)	U		1,700	"	"	"
Fluoranthene (206-44-0)	U		170	"	"	"
Fluorene (86-73-7)	U		170	"	"	"
Hexachlorobenzene (118-74-1)	U		170	"	"	"
Hexachlorobutadiene (87-68-3)	U	RL	340	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		1,700	"	"	"
Hexachloroethane (67-72-1)	U		170	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		170	"	"	"
Isophorone (78-59-1)	**377**	**J**	170	"	"	"
2-Methylnaphthalene (91-57-6)	U		170	"	"	"
2-Methylphenol (95-48-7)	U		170	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**194**	**N**	170	"	"	"
Naphthalene (91-20-3)	U		170	"	"	"
2-Nitroaniline (88-74-4)	U		340	"	"	"
3-Nitroaniline (99-09-2)	U	RL	2,380	"	"	"
4-Nitroaniline (100-01-6)	U	R	340	"	"	"
Nitrobenzene (98-95-3)	U		170	"	"	"

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

Lab ID: 1106038-04 **Station ID: EPA-GM-04**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 2.943 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		170	1	06/29/11	07/05/11
4-Nitrophenol (100-02-7)	U		1,700	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		170	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		170	"	"	"
Pentachlorophenol (87-86-5)	**408**	**J**	340	"	"	"
Phenanthrene (85-01-8)	**1,150**	**J**	170	"	"	"
Phenol (108-95-2)	**941**		170	"	"	"
Pyrene (129-00-0)	U		170	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		170	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		170	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		170	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-04 **Station ID: EPA-GM-04**

Batch: B1F3001 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 10.077 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	148		49.8	41-112	06/30/11	07/12/11
Surr: Decachlorobiphenyl	143		47.9 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.8	1	06/30/11	07/12/11
Aroclor-1221 (11104-28-2)	U		39.7	"	"	"
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)	**133**		19.8	"	"	"
Aroclor-1260 (11096-82-5)	**76.5**		19.8	"	"	"
Aroclor-1268 (11100-14-4)	**28.9**	**J**	19.8	"	"	"

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

Lab ID: 1106038-05 **Station ID: EPA-GM-05**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.965 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	5,010		64.4	38-101	06/29/11	07/05/11
Surr: Phenol-d5	6,260		80.5	42-105	"	"
Surr: 2-Chlorophenol-d4	5,540		71.3	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	3,100		59.8	37-100	"	"
Surr: Nitrobenzene-d5	3,830		74.0	42-108	"	"
Surr: 2-Fluorobiphenyl	4,520		87.2	51-103	"	"
Surr: 2,4,6-Tribromophenol	9,460		122 #	55-115	"	"
Surr: Terphenyl-d14	7,790		150 #	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		518	1	06/29/11	07/05/11
Acenaphthylene (208-96-8)	U		518	"	"	"
Acetophenone (98-86-2)	U		518	"	"	"
Anthracene (120-12-7)	U		518	"	"	"
Atrazine (1912-24-9)	U		518	"	"	"
Benzaldehyde (100-52-7)	U		1,040	"	"	"
Benzoic acid (65-85-0)	**6,410**	**J**	5,180	"	"	"
Benzo (a) anthracene (56-55-3)	U		518	"	"	"
Benzo (a) pyrene (50-32-8)	U		518	"	"	"
Benzo (b) fluoranthene (205-99-2)	**2,090**	**J**	518	"	"	"
Benzo (g,h,i) perylene (191-24-2)	**1,310**	**J**	518	"	"	"
Benzo (k) fluoranthene (207-08-9)	**694**	**J**	518	"	"	"
Benzyl alcohol (100-51-6)	U		518	"	"	"
1,1'-Biphenyl (92-52-4)	U		518	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		518	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		518	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		518	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**9,540**	**J**	5,180	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		518	"	"	"
Butyl benzyl phthalate (85-68-7)	U		5,180	"	"	"
Carbazole (86-74-8)	U		518	"	"	"
Caprolactam (105-60-2)	**1,130**	**N**	1,040	"	"	"
4-Chloroaniline (106-47-8)	U	R	518	"	"	"
2-Chloronaphthalene (91-58-7)	U		518	"	"	"

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

Lab ID: 1106038-05 **Station ID: EPA-GM-05**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.965 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		518	1	06/29/11	07/05/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		518	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		518	"	"	"
Chrysene (218-01-9)	**6,000**	**J**	518	"	"	"
Dibenzofuran (132-64-9)	U		518	"	"	"
Dibenz (a,h) anthracene (53-70-3)	**632**	**J**	518	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		518	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		518	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		518	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U	R	518	"	"	"
2,4-Dichlorophenol (120-83-2)	U		518	"	"	"
Diethyl phthalate (84-66-2)	U		5,180	"	"	"
2,4-Dimethylphenol (105-67-9)	U		1,040	"	"	"
Dimethyl phthalate (131-11-3)	U		5,180	"	"	"
2,4-Dinitrophenol (51-28-5)	U		5,180	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		1,040	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		1,040	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		5,180	"	"	"
Di-n-butyl phthalate (84-74-2)	U		5,180	"	"	"
Di-n-octyl phthalate (117-84-0)	U		5,180	"	"	"
Fluoranthene (206-44-0)	**2,020**		518	"	"	"
Fluorene (86-73-7)	U		518	"	"	"
Hexachlorobenzene (118-74-1)	U		518	"	"	"
Hexachlorobutadiene (87-68-3)	U		518	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	5,180	"	"	"
Hexachloroethane (67-72-1)	U		518	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		518	"	"	"
Isophorone (78-59-1)	U		518	"	"	"
2-Methylnaphthalene (91-57-6)	U		518	"	"	"
2-Methylphenol (95-48-7)	U		518	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		518	"	"	"
Naphthalene (91-20-3)	U		518	"	"	"
2-Nitroaniline (88-74-4)	U		1,040	"	"	"
3-Nitroaniline (99-09-2)	U	R	1,040	"	"	"
4-Nitroaniline (100-01-6)	U	R	1,040	"	"	"
Nitrobenzene (98-95-3)	U		518	"	"	"

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

Lab ID: 1106038-05 **Station ID: EPA-GM-05**

Batch: B1F2901 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 0.965 g Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		518	1	06/29/11	07/05/11
4-Nitrophenol (100-02-7)	U		5,180	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		518	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		518	"	"	"
Pentachlorophenol (87-86-5)	U		1,040	"	"	"
Phenanthrene (85-01-8)	**870**		518	"	"	"
Phenol (108-95-2)	U		518	"	"	"
Pyrene (129-00-0)	**5,230**	**J**	518	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		518	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		518	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		518	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-05 **Station ID: EPA-GM-05**

Batch: B1F3001 Date Collected: 06/16/11
Sample Type: Solid Sample Weight: 5.016 g Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (wet)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	523		87.4	41-112	06/30/11	07/20/11
Surr: Decachlorobiphenyl	514		85.9	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (wet)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		399	10	06/30/11	07/20/11
Aroclor-1221 (11104-28-2)	U		797	"	"	"
Aroclor-1232 (11141-16-5)	U		399	"	"	"
Aroclor-1242 (53469-21-9)	U		399	"	"	"
Aroclor-1248 (12672-29-6)	U		399	"	"	"
Aroclor-1254 (11097-69-1)	**560**		399	"	"	"
Aroclor-1260 (11096-82-5)	**448**	**NJ**	399	"	"	"
Aroclor-1268 (11100-14-4)	U		39.9	1	"	07/12/11

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

Lab ID: 1106038-06 **Station ID: SS-SE-03**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.404 g
%Solids: 57.50

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 2-Fluorophenol	567		45.2	38-101	06/23/11	07/05/11
Surr: Phenol-d5	836		66.7	42-105	"	"
Surr: 2-Chlorophenol-d4	702		56.0	40-100	"	"
Surr: 1,2-Dichlorobenzene-d4	318		38.0	37-100	"	"
Surr: Nitrobenzene-d5	473		56.6	42-108	"	"
Surr: 2-Fluorobiphenyl	717		85.8	51-103	"	"
Surr: 2,4,6-Tribromophenol	2,130		170 #	55-115	"	"
Surr: Terphenyl-d14	1,200		144 #	55-125	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	**3,280**		83.6	1	06/23/11	07/05/11
Acenaphthylene (208-96-8)	**124**		83.6	"	"	"
Acetophenone (98-86-2)	**85.2**		83.6	"	"	"
Anthracene (120-12-7)	**8,160**		836	10	"	06/23/11
Atrazine (1912-24-9)	U		83.6	1	"	07/05/11
Benzaldehyde (100-52-7)	U		167	"	"	"
Benzoic acid (65-85-0)	U		836	"	"	"
Benzo (a) anthracene (56-55-3)	**27,000**	**J**	836	10	"	06/23/11
Benzo (a) pyrene (50-32-8)	**26,400**	**J**	836	"	"	"
Benzo (b) fluoranthene (205-99-2)	**39,600**	**J**	8,360	100	"	07/05/11
Benzo (g,h,i) perylene (191-24-2)	**14,900**	**J**	836	10	"	06/23/11
Benzo (k) fluoranthene (207-08-9)	**26,100**	**J**	8,360	100	"	07/05/11
Benzyl alcohol (100-51-6)	U		83.6	1	"	07/05/11
1,1'-Biphenyl (92-52-4)	**627**		83.6	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		83.6	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		83.6	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		83.6	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	**9,710**	**J**	8,360	10	"	06/23/11
4-Bromophenyl phenyl ether (101-55-3)	U		83.6	1	"	07/05/11
Butyl benzyl phthalate (85-68-7)	**1,140**	**J**	836	"	"	"
Carbazole (86-74-8)	**23,000**	**J**	836	10	"	06/23/11
Caprolactam (105-60-2)	U		167	1	"	07/05/11
4-Chloroaniline (106-47-8)	U		83.6	"	"	"
2-Chloronaphthalene (91-58-7)	U		83.6	"	"	"

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

Lab ID: 1106038-06 **Station ID: SS-SE-03**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.404 g
%Solids: 57.50

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		83.6	1	06/23/11	07/05/11
4-Chlorophenyl phenyl ether (7005-72-3)	U		83.6	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		83.6	"	"	"
Chrysene (218-01-9)	**36,600**	**J**	8,360	100	"	07/05/11
Dibenzofuran (132-64-9)	**3,110**		83.6	1	"	07/05/11
Dibenz (a,h) anthracene (53-70-3)	**6,080**	**J**	836	10	"	06/23/11
1,2-Dichlorobenzene (95-50-1)	U		83.6	1	"	07/05/11
1,3-Dichlorobenzene (541-73-1)	U		83.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		83.6	"	"	"
3,3´-Dichlorobenzidine (91-94-1)	U		83.6	"	"	"
2,4-Dichlorophenol (120-83-2)	U		83.6	"	"	"
Diethyl phthalate (84-66-2)	U		836	"	"	"
2,4-Dimethylphenol (105-67-9)	U		167	"	"	"
Dimethyl phthalate (131-11-3)	U		836	"	"	"
2,4-Dinitrophenol (51-28-5)	U		836	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		167	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		167	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		836	"	"	"
Di-n-butyl phthalate (84-74-2)	U		836	"	"	"
Di-n-octyl phthalate (117-84-0)	U		836	"	"	"
Fluoranthene (206-44-0)	**70,400**		8,360	100	"	07/05/11
Fluorene (86-73-7)	**1,650**		83.6	1	"	07/05/11
Hexachlorobenzene (118-74-1)	U		83.6	"	"	"
Hexachlorobutadiene (87-68-3)	U		83.6	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		836	"	"	"
Hexachloroethane (67-72-1)	U		83.6	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	**19,300**	**J**	836	10	"	06/23/11
Isophorone (78-59-1)	U		83.6	1	"	07/05/11
2-Methylnaphthalene (91-57-6)	**1,330**		83.6	"	"	"
2-Methylphenol (95-48-7)	U		83.6	"	"	"
3 &/or 4-Methylphenol (106-44-5)	**578**		83.6	"	"	"
Naphthalene (91-20-3)	**2,470**		83.6	"	"	"
2-Nitroaniline (88-74-4)	U		167	"	"	"
3-Nitroaniline (99-09-2)	U		167	"	"	"
4-Nitroaniline (100-01-6)	U		167	"	"	"
Nitrobenzene (98-95-3)	U		83.6	"	"	"

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

Lab ID: 1106038-06 **Station ID: SS-SE-03**

Batch: B1F2301
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.404 g
%Solids: 57.50

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Nitrophenol (88-75-5)	U		83.6	1	06/23/11	07/05/11
4-Nitrophenol (100-02-7)	U		836	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		83.6	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		83.6	"	"	"
Pentachlorophenol (87-86-5)	U		167	"	"	"
Phenanthrene (85-01-8)	**67,900**		8,360	100	"	07/05/11
Phenol (108-95-2)	**105**		83.6	1	"	07/05/11
Pyrene (129-00-0)	**78,900**	**J**	8,360	100	"	07/05/11
1,2,4-Trichlorobenzene (120-82-1)	U		83.6	1	"	07/05/11
2,4,5-Trichlorophenol (95-95-4)	U		83.6	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		83.6	"	"	"

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 1106038-06 **Station ID: SS-SE-03**

Batch: B1F2302
Sample Type: Solid

Date Collected: 06/16/11
Sample Weight: 10.099 g
%Solids: 57.50

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg (dry)	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: Tetrachloro-meta-xylene	31.2		72.5	41-112	06/23/11	06/28/11
Surr: Decachlorobiphenyl	73.0		170 #	49-122	"	"

Targets

Analyte (CAS Number)	Result µg/kg (dry)	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	**51.7**	**NJ**	34.4	1	06/23/11	06/28/11
Aroclor-1221 (11104-28-2)	U		68.9	"	"	"
Aroclor-1232 (11141-16-5)	U		34.4	"	"	"
Aroclor-1242 (53469-21-9)	U		34.4	"	"	"
Aroclor-1248 (12672-29-6)	U		34.4	"	"	"
Aroclor-1254 (11097-69-1)	**51.9**	**NJ**	34.4	"	"	07/12/11
Aroclor-1260 (11096-82-5)	**453**	**NJ**	34.4	"	"	06/28/11
Aroclor-1268 (11100-14-4)	**1,590**	**J**	34.4	"	"	"

LW

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Percent Solids - Quality Control

Duplicate (B1F2303-DUP1)

Source: 1106038-06 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	55.92				57.50	2.79	20

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

Batch: B1F2301 **Sample Type: Solid**

Blank (B1F2301-BLK1)
Prepared: 6/23/2011 Analyzed: 6/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	462		749	61.7	38-101
Surr: Phenol-d5	694		749	92.7	42-105
Surr: 2-Chlorophenol-d4	611		749	81.6	40-100
Surr: 1,2-Dichlorobenzene-d4	376		499	75.2	37-100
Surr: Nitrobenzene-d5	418		499	83.6	42-108
Surr: 2-Fluorobiphenyl	458		499	91.8	51-103
Surr: 2,4,6-Tribromophenol	422		749	56.3	55-115
Surr: Terphenyl-d14	471		499	94.4	55-125

Blank (B1F2301-BLK1)
Prepared: 6/23/2011 Analyzed: 6/23/2011

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: B1F2301 **Sample Type: Solid**

Blank (B1F2301-BLK1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

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

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

Batch: B1F2301 **Sample Type: Solid**

Blank (B1F2301-BLK1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

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

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

Batch: B1F2301 **Sample Type: Solid**

LCS (B1F2301-BS1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	482		749	64.3	38-101
Surr: Phenol-d5	702		749	93.7	42-105
Surr: 2-Chlorophenol-d4	633		749	84.5	40-100
Surr: 1,2-Dichlorobenzene-d4	410		500	82.0	37-100
Surr: Nitrobenzene-d5	457		500	91.4	42-108
Surr: 2-Fluorobiphenyl	479		500	95.8	51-103
Surr: 2,4,6-Tribromophenol	577		749	76.9	55-115
Surr: Terphenyl-d14	523		500	105	55-125

LCS (B1F2301-BS1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	872		50.0	999	87.3	47-101
Acenaphthylene	1,010		50.0	999	101	49-102
Acetophenone	989		50.0	999	99.0	42-100
Anthracene	1,040		50.0	999	104	51-114
Atrazine	1,180		50.0	999	118	61-126
Benzaldehyde	834		99.9	999	83.5	30-100
Benzoic acid	392		500	999	39.2	10-125
Benzo (a) anthracene	1,120		50.0	999	112	59-121
Benzo (a) pyrene	992		50.0	999	99.3	65-124
Benzo (b) fluoranthene	1,180		50.0	999	118	60-119
Benzo (g,h,i) perylene	1,180		50.0	999	118	54-139
Benzo (k) fluoranthene	1,060		50.0	999	106	57-130
Benzyl alcohol	989		50.0	999	99.0	42-102
1,1'-Biphenyl	975		50.0	999	97.6	41-107
Bis(2-chloroethoxy)methane	969		50.0	999	97.0	47-100
Bis(2-chloroethyl)ether	863		50.0	999	86.4	37-100

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

Batch: B1F2301 **Sample Type: Solid**

LCS (B1F2301-BS1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Bis(2-chloroisopropyl)ether	884		50.0	999	88.5	41-100
Bis(2-ethylhexyl)phthalate	949		500	999	95.0	59-146
4-Bromophenyl phenyl ether	993		50.0	999	99.4	50-109
Butyl benzyl phthalate	952		500	999	95.3	65-124
Carbazole	1,140		50.0	999	114	59-124
Caprolactam	884		99.9	999	88.5	55-142
4-Chloroaniline	918		50.0	999	91.9	37-100
2-Chloronaphthalene	882		50.0	999	88.3	45-101
2-Chlorophenol	894		50.0	999	89.5	41-100
4-Chlorophenyl phenyl ether	862		50.0	999	86.3	47-113
4-Chloro-3-methylphenol	1,070		50.0	999	107	47-114
Chrysene	1,020		50.0	999	102	58-122
Dibenzofuran	906		50.0	999	90.7	49-104
Dibenz (a,h) anthracene	1,210		50.0	999	121	61-137
1,2-Dichlorobenzene	826		50.0	999	82.7	35-100
1,3-Dichlorobenzene	780		50.0	999	78.1	36-100
1,4-Dichlorobenzene	792		50.0	999	79.3	32-100
3,3´-Dichlorobenzidine	1,110		50.0	999	112	56-149
2,4-Dichlorophenol	992		50.0	999	99.3	49-101
Diethyl phthalate	1,050		500	999	105	45-136
2,4-Dimethylphenol	814		99.9	999	81.5	26-100
Dimethyl phthalate	1,040		500	999	104	53-111
2,4-Dinitrophenol	329		500	999	32.9	13-127
2,4-Dinitrotoluene	920		99.9	999	92.1	54-112
2,6-Dinitrotoluene	912		99.9	999	91.3	53-112
4,6-Dinitro-2-methylphenol	424		500	999	42.4	19-136
Di-n-butyl phthalate	988		500	999	98.9	57-139
Di-n-octyl phthalate	973		500	999	97.4	66-127
Fluoranthene	1,170		50.0	999	117	58-120
Fluorene	905		50.0	999	90.6	49-112

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

Batch: B1F2301 **Sample Type: Solid**

LCS (B1F2301-BS1)

Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC		%REC Limits
Hexachlorobenzene	901		50.0	999	90.2		48-111
Hexachlorobutadiene	830		50.0	999	83.1		42-101
Hexachlorocyclopentadiene	921		500	999	92.2		25-108
Hexachloroethane	822		50.0	999	82.3		35-100
Indeno (1,2,3-cd) pyrene	1,210		50.0	999	121		61-137
Isophorone	1,130		50.0	999	113	#	47-100
2-Methylnaphthalene	910		50.0	999	91.1		47-101
2-Methylphenol	931		50.0	999	93.2		44-100
3 &/or 4-Methylphenol	967		50.0	999	96.8		45-100
Naphthalene	892		50.0	999	89.3		44-100
2-Nitroaniline	921		99.9	999	92.2		53-112
3-Nitroaniline	936		99.9	999	93.7		50-117
4-Nitroaniline	1,040		99.9	999	104		61-137
Nitrobenzene	882		50.0	999	88.3		43-100
2-Nitrophenol	956		50.0	999	95.7		46-101
4-Nitrophenol	888		500	999	88.9		47-130
N-Nitrosodiphenylamine	1,050		50.0	999	105		53-112
N-Nitrosodi-n-propylamine	1,060		50.0	999	106	#	43-100
Pentachlorophenol	659		99.9	999	66.0		16-122
Phenanthrene	943		50.0	999	94.4		51-113
Phenol	877		50.0	999	87.8		40-101
Pyrene	1,070		50.0	999	107		51-119
1,2,4-Trichlorobenzene	842		50.0	999	84.3		40-100
2,4,5-Trichlorophenol	929		50.0	999	93.0		50-108
2,4,6-Trichlorophenol	942		50.0	999	94.3		48-105

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike (B1F2301-MS1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	532		901	59.1	38-101
Surr: Phenol-d5	695		901	77.2	42-105
Surr: 2-Chlorophenol-d4	712		901	79.1	40-100
Surr: 1,2-Dichlorobenzene-d4	364		600	60.6	37-100
Surr: Nitrobenzene-d5	480		600	80.0	42-108
Surr: 2-Fluorobiphenyl	587		600	97.8	51-103
Surr: 2,4,6-Tribromophenol	983		901	109	55-115
Surr: Terphenyl-d14	1,160		600	194 #	55-125

Matrix Spike (B1F2301-MS1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Acenaphthene	1,640		60.0	1,200	219	118 #	34-107
Acenaphthylene	1,310		60.0	1,200	57.2	105	48-111
Acetophenone	1,120		60.0	1,200	39.0	90.0	36-110
Anthracene	3,160		600	1,200	536	218 #	53-123
Atrazine	1,380		60.0	1,200		115	63-133
Benzaldehyde	971		120	1,200	62.1	75.7	21-102
Benzoic acid	1,770		600	1,200	1,010	63.6	10-115
Benzo (a) anthracene	6,200		600	1,200	2,970	269 #	58-129
Benzo (a) pyrene	11,600		600	1,200	6,270	445 #	69-125
Benzo (b) fluoranthene	15,800		1,200	1,200	8,550	608 #	65-126
Benzo (g,h,i) perylene	12,100		600	1,200	5,800	521 #	50-137
Benzo (k) fluoranthene	11,100		1,200	1,200	6,260	403 #	59-135
Benzyl alcohol	1,210		60.0	1,200		101	44-106
1,1'-Biphenyl	1,240		60.0	1,200	42.6	99.7	40-118
Bis(2-chloroethoxy)methane	1,030		60.0	1,200		86.0	48-103
Bis(2-chloroethyl)ether	864		60.0	1,200		72.0	31-104

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike (B1F2301-MS1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Bis(2-chloroisopropyl)ether	959		60.0	1,200		79.9		36-102
Bis(2-ethylhexyl)phthalate	7,590		6,000	1,200	1,310	523	#	56-153
4-Bromophenyl phenyl ether	1,440		60.0	1,200		120	#	55-116
Butyl benzyl phthalate	2,370		600	1,200		197	#	59-140
Carbazole	4,470		600	1,200	2,000	206	#	61-133
Caprolactam	1,340		120	1,200		111		48-156
4-Chloroaniline	548		60.0	1,200		45.6		35-102
2-Chloronaphthalene	1,060		60.0	1,200		88.5		48-105
2-Chlorophenol	1,020		60.0	1,200		84.6		28-94
4-Chlorophenyl phenyl ether	1,030		60.0	1,200		86.2		48-119
4-Chloro-3-methylphenol	1,410		60.0	1,200		118		38-126
Chrysene	16,400		600	1,200	7,750	722	#	58-128
Dibenzofuran	1,480		60.0	1,200	158	110		50-111
Dibenz (a,h) anthracene	2,500		600	1,200	1,060	120		62-135
1,2-Dichlorobenzene	839		60.0	1,200		69.9		39-97
1,3-Dichlorobenzene	765		60.0	1,200		63.7		38-95
1,4-Dichlorobenzene	766		60.0	1,200		63.8		27-83
3,3´-Dichlorobenzidine	U		60.0	1,200		NR	#	54-148
2,4-Dichlorophenol	1,190		60.0	1,200		99.5		50-117
Diethyl phthalate	1,260		600	1,200	6.1	104		51-136
2,4-Dimethylphenol	1,200		120	1,200	24.4	98.0		28-111
Dimethyl phthalate	1,330		600	1,200	17.1	109		56-117
2,4-Dinitrophenol	870		600	1,200		72.5		10-129
2,4-Dinitrotoluene	1,100		120	1,200		91.8		38-123
2,6-Dinitrotoluene	1,160		120	1,200		96.7		56-120
4,6-Dinitro-2-methylphenol	837		600	1,200		69.7		10-130
Di-n-butyl phthalate	1,020		600	1,200	68.2	78.9		51-148
Di-n-octyl phthalate	1,670		600	1,200		139	#	61-138
Fluoranthene	23,200		600	1,200	9,740	NR	#	60-130
Fluorene	1,580		60.0	1,200	145	119	#	51-116

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike (B1F2301-MS1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Hexachlorobenzene	1,180		60.0	1,200		98.0		55-116
Hexachlorobutadiene	985		60.0	1,200		82.0		47-102
Hexachlorocyclopentadiene	U		600	1,200		NR	#	21-113
Hexachloroethane	886		60.0	1,200		73.8		36-96
Indeno (1,2,3-cd) pyrene	8,150		600	1,200	4,230	327	#	62-133
Isophorone	1,310		60.0	1,200		109	#	49-103
2-Methylnaphthalene	1,280		60.0	1,200	177	92.3		50-105
2-Methylphenol	1,040		60.0	1,200	9.7	85.6		43-102
3 &/or 4-Methylphenol	1,090		60.0	1,200	31.7	87.9		46-106
Naphthalene	1,230		60.0	1,200	177	87.4		46-102
2-Nitroaniline	1,200		120	1,200		99.9		53-124
3-Nitroaniline	766		120	1,200		63.8		51-122
4-Nitroaniline	973		120	1,200		81.0		62-140
Nitrobenzene	935		60.0	1,200		77.9		44-105
2-Nitrophenol	1,180		60.0	1,200		98.3		44-114
4-Nitrophenol	1,250		600	1,200		104		35-138
N-Nitrosodiphenylamine	1,590		60.0	1,200		132	#	56-120
N-Nitrosodi-n-propylamine	1,180		60.0	1,200		98.6	#	29-97
Pentachlorophenol	1,010		120	1,200		84.1		10-126
Phenanthrene	13,600		600	1,200	5,010	715	#	52-121
Phenol	950		60.0	1,200	28.0	76.8		32-96
Pyrene	23,800		1,200	1,200	11,100	NR	#	39-129
1,2,4-Trichlorobenzene	961		60.0	1,200		80.0		24-105
2,4,5-Trichlorophenol	1,390		60.0	1,200		116		52-121
2,4,6-Trichlorophenol	1,200		60.0	1,200		99.7		48-113

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike Dup (B1F2301-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	555		909	61.1	38-101
Surr: Phenol-d5	732		909	80.5	42-105
Surr: 2-Chlorophenol-d4	664		909	73.1	40-100
Surr: 1,2-Dichlorobenzene-d4	355		606	58.6	37-100
Surr: Nitrobenzene-d5	450		606	74.2	42-108
Surr: 2-Fluorobiphenyl	597		606	98.6	51-103
Surr: 2,4,6-Tribromophenol	1,040		909	114	55-115
Surr: Terphenyl-d14	1,340		606	221 #	55-125

Matrix Spike Dup (B1F2301-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acenaphthene	1,210		60.6	1,210	219	81.5	34-107	30.3	31
Acenaphthylene	1,290		60.6	1,210	57.2	101	48-111	2.24	30
Acetophenone	1,050		60.6	1,210	39.0	83.5	36-110	6.31	30
Anthracene	1,880		606	1,210	536	111	53-123	50.8 #	30
Atrazine	1,340		60.6	1,210		111	63-133	2.37	30
Benzaldehyde	893		121	1,210	62.1	68.6	21-102	8.40	30
Benzoic acid	1,620		606	1,210	1,010	50.4	10-115	9.06	30
Benzo (a) anthracene	4,130		606	1,210	2,970	95.8	58-129	40.0 #	30
Benzo (a) pyrene	6,680		606	1,210	6,270	33.4 #	69-125	54.0 #	30
Benzo (b) fluoranthene	9,960		1,210	1,210	8,550	116	65-126	45.6 #	30
Benzo (g,h,i) perylene	6,600		606	1,210	5,800	66.6	50-137	58.4 #	30
Benzo (k) fluoranthene	6,590		1,210	1,210	6,260	27.4 #	59-135	50.9 #	30
Benzyl alcohol	1,070		60.6	1,210		88.6	44-106	11.8	30
1,1'-Biphenyl	1,260		60.6	1,210	42.6	100	40-118	1.30	30
Bis(2-chloroethoxy)methane	1,020		60.6	1,210		83.8	48-103	1.68	30
Bis(2-chloroethyl)ether	808		60.6	1,210		66.7	31-104	6.73	30

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike Dup (B1F2301-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

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	905		60.6	1,210		74.7		36-102	5.81		30
Bis(2-ethylhexyl)phthalate	3,990		6,060	1,210	1,310	221	#	56-153	62.2	#	30
4-Bromophenyl phenyl ether	1,380		60.6	1,210		114		55-116	4.30		30
Butyl benzyl phthalate	2,270		6,060	1,210		187	#	59-140	4.35		30
Carbazole	2,380		60.6	1,210	2,000	31.3	#	61-133	61.1	#	30
Caprolactam	1,230		121	1,210		101		48-156	8.59		30
4-Chloroaniline	468		60.6	1,210		38.6		35-102	15.7		30
2-Chloronaphthalene	1,080		60.6	1,210		89.5		48-105	2.04		30
2-Chlorophenol	967		60.6	1,210		79.8		28-94	4.93		37
4-Chlorophenyl phenyl ether	1,020		60.6	1,210		83.9		48-119	1.79		30
4-Chloro-3-methylphenol	1,330		60.6	1,210		110		38-126	5.94		36
Chrysene	7,590		606	1,210	7,750	NR	#	58-128	73.6	#	30
Dibenzofuran	1,230		60.6	1,210	158	88.1		50-111	18.5		30
Dibenz (a,h) anthracene	2,140		606	1,210	1,060	89.6		62-135	15.2		30
1,2-Dichlorobenzene	786		60.6	1,210		64.9		39-97	6.51		30
1,3-Dichlorobenzene	720		60.6	1,210		59.4		38-95	6.07		30
1,4-Dichlorobenzene	723		60.6	1,210		59.7		27-83	5.73		36
3,3´-Dichlorobenzidine	U		60.6	1,210		NR	#	54-148		#	30
2,4-Dichlorophenol	1,230		60.6	1,210		101		50-117	2.61		30
Diethyl phthalate	1,210		606	1,210	6.1	99.0		51-136	4.47		30
2,4-Dimethylphenol	1,150		121	1,210	24.4	93.3		28-111	3.90		30
Dimethyl phthalate	1,300		606	1,210	17.1	106		56-117	1.65		30
2,4-Dinitrophenol	1,260		606	1,210		104		10-129	36.3	#	30
2,4-Dinitrotoluene	1,070		121	1,210		88.1		38-123	3.20		32
2,6-Dinitrotoluene	1,150		121	1,210		95.2		56-120	0.65		30
4,6-Dinitro-2-methylphenol	1,100		606	1,210		90.6		10-130	27.0		30
Di-n-butyl phthalate	928		606	1,210	68.2	71.0		51-148	9.01		30
Di-n-octyl phthalate	1,520		606	1,210		125		61-138	9.30		30
Fluoranthene	10,200		606	1,210	9,740	36.9	#	60-130	77.8	#	30
Fluorene	1,190		60.6	1,210	145	86.5		51-116	27.7		30

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

Batch: B1F2301 **Sample Type: Solid**

Matrix Spike Dup (B1F2301-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/23/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Hexachlorobenzene	1,150		60.6	1,210		95.3		55-116	1.88		30
Hexachlorobutadiene	927		60.6	1,210		76.5		47-102	6.03		30
Hexachlorocyclopentadiene	U		606	1,210		NR	#	21-113		#	30
Hexachloroethane	831		60.6	1,210		68.6		36-96	6.39		30
Indeno (1,2,3-cd) pyrene	5,780		606	1,210	4,230	128		62-133	34.1	#	30
Isophorone	1,250		60.6	1,210		103		49-103	4.27		30
2-Methylnaphthalene	1,200		60.6	1,210	177	84.4		50-105	6.86		30
2-Methylphenol	1,050		60.6	1,210	9.7	86.1		43-102	1.49		30
3 &/or 4-Methylphenol	1,110		60.6	1,210	31.7	88.7		46-106	1.79		30
Naphthalene	1,070		60.6	1,210	177	73.5		46-102	13.8		30
2-Nitroaniline	1,230		121	1,210		101		53-124	2.11		30
3-Nitroaniline	608		121	1,210		50.2	#	51-122	23.0		30
4-Nitroaniline	800		121	1,210		66.0		62-140	19.5		30
Nitrobenzene	885		60.6	1,210		73.0		44-105	5.58		30
2-Nitrophenol	1,110		60.6	1,210		92.0		44-114	5.71		30
4-Nitrophenol	1,160		606	1,210		95.6		35-138	7.51		39
N-Nitrosodiphenylamine	1,630		60.6	1,210		135	#	56-120	2.71		30
N-Nitrosodi-n-propylamine	1,100		60.6	1,210		90.6		29-97	7.55		33
Pentachlorophenol	1,270		121	1,210		105		10-126	22.7		45
Phenanthrene	5,450		606	1,210	5,010	36.9	#	52-121	85.5	#	30
Phenol	984		60.6	1,210	28.0	78.9		32-96	3.53		38
Pyrene	10,700		1,210	1,210	11,100	NR	#	39-129	76.0	#	34
1,2,4-Trichlorobenzene	914		60.6	1,210		75.4		24-105	5.01		34
2,4,5-Trichlorophenol	1,430		60.6	1,210		118		52-121	2.71		30
2,4,6-Trichlorophenol	1,250		60.6	1,210		103		48-113	3.97		30

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

Batch: B1F2901 **Sample Type: Solid**

Blank (B1F2901-BLK1)
Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	485		749	64.8	38-101
Surr: Phenol-d5	573		749	76.5	42-105
Surr: 2-Chlorophenol-d4	515		749	68.8	40-100
Surr: 1,2-Dichlorobenzene-d4	334		499	66.8	37-100
Surr: Nitrobenzene-d5	365		499	73.0	42-108
Surr: 2-Fluorobiphenyl	388		499	77.6	51-103
Surr: 2,4,6-Tribromophenol	440		749	58.7	55-115
Surr: Terphenyl-d14	451		499	90.2	55-125

Blank (B1F2901-BLK1)
Prepared: 6/29/2011 Analyzed: 7/5/2011

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: B1F2901 **Sample Type: Solid**

Blank (B1F2901-BLK1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

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: B1F2901 **Sample Type: Solid**

Blank (B1F2901-BLK1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

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: B1F2901 **Sample Type: Solid**

LCS (B1F2901-BS1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	446		749	59.6	38-101
Surr: Phenol-d5	490		749	65.5	42-105
Surr: 2-Chlorophenol-d4	446		749	59.6	40-100
Surr: 1,2-Dichlorobenzene-d4	314		499	62.8	37-100
Surr: Nitrobenzene-d5	332		499	66.4	42-108
Surr: 2-Fluorobiphenyl	341		499	68.2	51-103
Surr: 2,4,6-Tribromophenol	527		749	70.4	55-115
Surr: Terphenyl-d14	401		499	80.4	55-125

LCS (B1F2901-BS1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	669		49.9	999	67.0	47-101
Acenaphthylene	695		49.9	999	69.6	49-102
Acetophenone	705		49.9	999	70.6	42-100
Anthracene	754		49.9	999	75.5	51-114
Atrazine	925		49.9	999	92.6	61-126
Benzaldehyde	674		99.9	999	67.5	30-100
Benzoic acid	263		499	999	26.3	10-125
Benzo (a) anthracene	824		49.9	999	82.5	59-121
Benzo (a) pyrene	934		49.9	999	93.5	65-124
Benzo (b) fluoranthene	852		49.9	999	85.3	60-119
Benzo (g,h,i) perylene	867		49.9	999	86.8	54-139
Benzo (k) fluoranthene	917		49.9	999	91.8	57-130
Benzyl alcohol	702		49.9	999	70.3	42-102
1,1'-Biphenyl	702		49.9	999	70.3	41-107
Bis(2-chloroethoxy)methane	668		49.9	999	66.9	47-100
Bis(2-chloroethyl)ether	649		49.9	999	65.0	37-100

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

Batch: B1F2901 **Sample Type: Solid**

LCS (B1F2901-BS1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Bis(2-chloroisopropyl)ether	628		49.9	999	62.9	41-100
Bis(2-ethylhexyl)phthalate	663		499	999	66.4	59-146
4-Bromophenyl phenyl ether	724		49.9	999	72.5	50-109
Butyl benzyl phthalate	717		499	999	71.8	65-124
Carbazole	801		49.9	999	80.2	59-124
Caprolactam	822		99.9	999	82.3	55-142
4-Chloroaniline	570		49.9	999	57.1	37-100
2-Chloronaphthalene	651		49.9	999	65.2	45-101
2-Chlorophenol	655		49.9	999	65.6	41-100
4-Chlorophenyl phenyl ether	675		49.9	999	67.6	47-113
4-Chloro-3-methylphenol	740		49.9	999	74.1	47-114
Chrysene	790		49.9	999	79.1	58-122
Dibenzofuran	672		49.9	999	67.3	49-104
Dibenz (a,h) anthracene	887		49.9	999	88.8	61-137
1,2-Dichlorobenzene	628		49.9	999	62.9	35-100
1,3-Dichlorobenzene	606		49.9	999	60.7	36-100
1,4-Dichlorobenzene	613		49.9	999	61.4	32-100
3,3´-Dichlorobenzidine	817		49.9	999	81.8	56-149
2,4-Dichlorophenol	691		49.9	999	69.2	49-101
Diethyl phthalate	750		499	999	75.1	45-136
2,4-Dimethylphenol	499		99.9	999	50.0	26-100
Dimethyl phthalate	744		499	999	74.5	53-111
2,4-Dinitrophenol	329		499	999	32.9	13-127
2,4-Dinitrotoluene	719		99.9	999	72.0	54-112
2,6-Dinitrotoluene	809		99.9	999	81.0	53-112
4,6-Dinitro-2-methylphenol	495		499	999	49.6	19-136
Di-n-butyl phthalate	888		499	999	88.9	57-139
Di-n-octyl phthalate	620		499	999	62.1 #	66-127
Fluoranthene	789		49.9	999	79.0	58-120
Fluorene	694		49.9	999	69.5	49-112

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

Batch: B1F2901 **Sample Type: Solid**

LCS (B1F2901-BS1)

Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Hexachlorobenzene	727		49.9	999	72.8	48-111
Hexachlorobutadiene	653		49.9	999	65.4	42-101
Hexachlorocyclopentadiene	749		499	999	75.0	25-108
Hexachloroethane	636		49.9	999	63.7	35-100
Indeno (1,2,3-cd) pyrene	886		49.9	999	88.7	61-137
Isophorone	680		49.9	999	68.1	47-100
2-Methylnaphthalene	667		49.9	999	66.8	47-101
2-Methylphenol	641		49.9	999	64.2	44-100
3 &/or 4-Methylphenol	651		49.9	999	65.2	45-100
Naphthalene	659		49.9	999	66.0	44-100
2-Nitroaniline	797		99.9	999	79.8	53-112
3-Nitroaniline	792		99.9	999	79.3	50-117
4-Nitroaniline	798		99.9	999	79.9	61-137
Nitrobenzene	672		49.9	999	67.3	43-100
2-Nitrophenol	709		49.9	999	71.0	46-101
4-Nitrophenol	738		499	999	73.9	47-130
N-Nitrosodiphenylamine	766		49.9	999	76.7	53-112
N-Nitrosodi-n-propylamine	668		49.9	999	66.9	43-100
Pentachlorophenol	416		99.9	999	41.7	16-122
Phenanthrene	726		49.9	999	72.7	51-113
Phenol	663		49.9	999	66.4	40-101
Pyrene	886		49.9	999	88.7	51-119
1,2,4-Trichlorobenzene	655		49.9	999	65.6	40-100
2,4,5-Trichlorophenol	724		49.9	999	72.5	50-108
2,4,6-Trichlorophenol	708		49.9	999	70.9	48-105

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,610		2,350	68.7	38-101
Surr: Phenol-d5	2,230		2,350	95.2	42-105
Surr: 2-Chlorophenol-d4	1,560		2,350	66.5	40-100
Surr: 1,2-Dichlorobenzene-d4	544		1,560	34.8 #	37-100
Surr: Nitrobenzene-d5	1,270		1,560	81.4	42-108
Surr: 2-Fluorobiphenyl	1,170		1,560	75.0	51-103
Surr: 2,4,6-Tribromophenol	5,600		2,350	239 #	55-115
Surr: Terphenyl-d14	3,290		1,560	210 #	55-125

Matrix Spike (B1F2901-MS1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Acenaphthene	2,550		156	3,130		81.4	34-107
Acenaphthylene	2,330		156	3,130		74.5	48-111
Acetophenone	3,660		156	3,130	1,460	70.3	36-110
Anthracene	3,630		156	3,130	78.2	113	53-123
Atrazine	3,690		1,560	3,130		118	63-133
Benzaldehyde	3,230		313	3,130	1,400	58.7	21-102
Benzoic acid	22,800		15,600	3,130	14,700	261 #	10-115
Benzo (a) anthracene	3,220		1,560	3,130		103	58-129
Benzo (a) pyrene	3,370		156	3,130		108	69-125
Benzo (b) fluoranthene	4,440		1,560	3,130		142 #	65-126
Benzo (g,h,i) perylene	1,120		156	3,130		35.7 #	50-137
Benzo (k) fluoranthene	4,010		1,560	3,130		128	59-135
Benzyl alcohol	2,300		156	3,130		73.6	44-106
1,1'-Biphenyl	1,790		156	3,130		57.3	40-118
Bis(2-chloroethoxy)methane	3,060		156	3,130		97.8	48-103
Bis(2-chloroethyl)ether	1,720		156	3,130		54.9	31-104

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Bis(2-chloroisopropyl)ether	1,710		156	3,130		54.5		36-102
Bis(2-ethylhexyl)phthalate	3,050		1,560	3,130		97.5		56-153
4-Bromophenyl phenyl ether	5,780		156	3,130		185	#	55-116
Butyl benzyl phthalate	5,910		15,600	3,130		189	#	59-140
Carbazole	3,310		156	3,130		106		61-133
Caprolactam	1,450		313	3,130		46.3	#	48-156
4-Chloroaniline	U		156	3,130		NR	#	35-102
2-Chloronaphthalene	1,640		156	3,130		52.5		48-105
2-Chlorophenol	2,350		156	3,130		75.1		28-94
4-Chlorophenyl phenyl ether	2,450		156	3,130		78.4		48-119
4-Chloro-3-methylphenol	2,780		156	3,130		88.7		38-126
Chrysene	3,190		1,560	3,130		102		58-128
Dibenzofuran	2,650		156	3,130	71.4	82.4		50-111
Dibenz (a,h) anthracene	3,470		156	3,130		111		62-135
1,2-Dichlorobenzene	1,060		156	3,130		33.9	#	39-97
1,3-Dichlorobenzene	1,260		156	3,130		40.3		38-95
1,4-Dichlorobenzene	1,200		156	3,130		38.5		27-83
3,3´-Dichlorobenzidine	U		156	3,130		NR	#	54-148
2,4-Dichlorophenol	3,650		156	3,130		116		50-117
Diethyl phthalate	2,880		1,560	3,130		92.0		51-136
2,4-Dimethylphenol	3,420		313	3,130	34.0	108		28-111
Dimethyl phthalate	2,090		1,560	3,130		66.9		56-117
2,4-Dinitrophenol	2,180		1,560	3,130		69.7		10-129
2,4-Dinitrotoluene	2,520		313	3,130		80.5		38-123
2,6-Dinitrotoluene	2,370		313	3,130	44.2	74.5		56-120
4,6-Dinitro-2-methylphenol	1,960		1,560	3,130		62.6		10-130
Di-n-butyl phthalate	2,240		1,560	3,130		71.7		51-148
Di-n-octyl phthalate	3,870		1,560	3,130		124		61-138
Fluoranthene	3,340		156	3,130		107		60-130
Fluorene	2,420		156	3,130		77.2		51-116

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Hexachlorobenzene	5,390		156	3,130		172	#	55-116
Hexachlorobutadiene	1,450		156	3,130		46.3	#	47-102
Hexachlorocyclopentadiene	2,470		1,560	3,130		79.1		21-113
Hexachloroethane	1,650		156	3,130		52.6		36-96
Indeno (1,2,3-cd) pyrene	3,240		156	3,130		103		62-133
Isophorone	1,590		156	3,130	377	38.8	#	49-103
2-Methylnaphthalene	1,630		156	3,130	27.2	51.2		50-105
2-Methylphenol	3,040		156	3,130		97.3		43-102
3 &/or 4-Methylphenol	3,090		156	3,130	194	92.6		46-106
Naphthalene	1,870		156	3,130	54.4	58.0		46-102
2-Nitroaniline	2,640		313	3,130		84.4		53-124
3-Nitroaniline	429		313	3,130		13.7	#	51-122
4-Nitroaniline	U		313	3,130		NR	#	62-140
Nitrobenzene	2,110		156	3,130		67.3		44-105
2-Nitrophenol	1,910		156	3,130		61.1		44-114
4-Nitrophenol	2,730		1,560	3,130		87.2		35-138
N-Nitrosodiphenylamine	2,580		156	3,130		82.3		56-120
N-Nitrosodi-n-propylamine	1,570		156	3,130		50.2		29-97
Pentachlorophenol	4,990		313	3,130	408	147	#	10-126
Phenanthrene	4,670		156	3,130	1,150	112		52-121
Phenol	3,870		156	3,130	941	93.7		32-96
Pyrene	3,600		156	3,130		115		39-129
1,2,4-Trichlorobenzene	2,030		156	3,130		64.8		24-105
2,4,5-Trichlorophenol	1,840		156	3,130		58.9		52-121
2,4,6-Trichlorophenol	3,880		156	3,130		124	#	48-113

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	4,170		7,660	54.4	38-101
Surr: Phenol-d5	5,300		7,660	69.2	42-105
Surr: 2-Chlorophenol-d4	4,810		7,660	62.8	40-100
Surr: 1,2-Dichlorobenzene-d4	2,910		5,110	57.0	37-100
Surr: Nitrobenzene-d5	3,460		5,110	67.8	42-108
Surr: 2-Fluorobiphenyl	4,390		5,110	86.0	51-103
Surr: 2,4,6-Tribromophenol	9,110		7,660	119 #	55-115
Surr: Terphenyl-d14	7,580		5,110	148 #	55-125

Matrix Spike (B1F2901-MS2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Acenaphthene	7,940		511	10,200		77.7	34-107
Acenaphthylene	8,420		511	10,200		82.4	48-111
Acetophenone	7,180		511	10,200	363	66.7	36-110
Anthracene	8,130		511	10,200	82.9	78.8	53-123
Atrazine	10,700		511	10,200		105	63-133
Benzaldehyde	5,980		1,020	10,200	373	54.8	21-102
Benzoic acid	13,500		5,110	10,200	6,410	69.7	10-115
Benzo (a) anthracene	9,370		511	10,200	477	87.0	58-129
Benzo (a) pyrene	9,660		511	10,200		94.6	69-125
Benzo (b) fluoranthene	12,100		511	10,200	2,090	97.7	65-126
Benzo (g,h,i) perylene	6,130		511	10,200	1,310	47.2 #	50-137
Benzo (k) fluoranthene	11,500		511	10,200	694	106	59-135
Benzyl alcohol	7,440		511	10,200		72.8	44-106
1,1'-Biphenyl	8,520		511	10,200		83.4	40-118
Bis(2-chloroethoxy)methane	7,080		511	10,200		69.3	48-103
Bis(2-chloroethyl)ether	5,560		511	10,200		54.4	31-104

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Bis(2-chloroisopropyl)ether	5,740		511	10,200		56.2		36-102
Bis(2-ethylhexyl)phthalate	19,700		5,110	10,200	9,540	99.7		56-153
4-Bromophenyl phenyl ether	9,630		511	10,200		94.3		55-116
Butyl benzyl phthalate	15,400		5,110	10,200	1,800	133		59-140
Carbazole	8,080		511	10,200	114	78.0		61-133
Caprolactam	10,600		1,020	10,200	1,130	92.3		48-156
4-Chloroaniline	U		511	10,200		NR	#	35-102
2-Chloronaphthalene	7,870		511	10,200		77.0		48-105
2-Chlorophenol	6,790		511	10,200		66.5		28-94
4-Chlorophenyl phenyl ether	7,890		511	10,200		77.2		48-119
4-Chloro-3-methylphenol	8,740		511	10,200		85.6		38-126
Chrysene	13,500		511	10,200	6,000	73.2		58-128
Dibenzofuran	7,870		511	10,200	62.2	76.4		50-111
Dibenz (a,h) anthracene	10,800		511	10,200	632	99.4		62-135
1,2-Dichlorobenzene	5,600		511	10,200		54.8		39-97
1,3-Dichlorobenzene	5,160		511	10,200		50.5		38-95
1,4-Dichlorobenzene	5,210		511	10,200		51.0		27-83
3,3´-Dichlorobenzidine	501		511	10,200		4.90	#	54-148
2,4-Dichlorophenol	8,550		511	10,200		83.7		50-117
Diethyl phthalate	10,500		5,110	10,200	1,080	91.9		51-136
2,4-Dimethylphenol	4,180		1,020	10,200		40.9		28-111
Dimethyl phthalate	9,100		5,110	10,200		89.1		56-117
2,4-Dinitrophenol	10,300		5,110	10,200		101		10-129
2,4-Dinitrotoluene	8,390		1,020	10,200		82.1		38-123
2,6-Dinitrotoluene	10,100		1,020	10,200		98.9		56-120
4,6-Dinitro-2-methylphenol	8,700		5,110	10,200		85.2		10-130
Di-n-butyl phthalate	10,800		5,110	10,200	2,450	82.3		51-148
Di-n-octyl phthalate	10,600		5,110	10,200		104		61-138
Fluoranthene	7,790		511	10,200	2,020	56.5	#	60-130
Fluorene	8,040		511	10,200	93.3	77.8		51-116

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike (B1F2901-MS2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Hexachlorobenzene	8,580		511	10,200		84.0		55-116
Hexachlorobutadiene	6,880		511	10,200		67.4		47-102
Hexachlorocyclopentadiene	582		5,110	10,200		5.70	#	21-113
Hexachloroethane	5,820		511	10,200		57.0		36-96
Indeno (1,2,3-cd) pyrene	9,970		511	10,200	415	93.5		62-133
Isophorone	7,410		511	10,200	72.5	71.8		49-103
2-Methylnaphthalene	7,770		511	10,200	145	74.7		50-105
2-Methylphenol	6,990		511	10,200		68.4		43-102
3 &/or 4-Methylphenol	6,910		511	10,200	72.5	66.9		46-106
Naphthalene	7,120		511	10,200	62.2	69.1		46-102
2-Nitroaniline	8,690		1,020	10,200		85.1		53-124
3-Nitroaniline	184		1,020	10,200		1.80	#	51-122
4-Nitroaniline	235		1,020	10,200		2.30	#	62-140
Nitrobenzene	6,640		511	10,200		65.0		44-105
2-Nitrophenol	8,090		511	10,200		79.2		44-114
4-Nitrophenol	11,200		5,110	10,200	2,360	86.2		35-138
N-Nitrosodiphenylamine	8,980		511	10,200		87.9		56-120
N-Nitrosodi-n-propylamine	6,810		511	10,200		66.7		29-97
Pentachlorophenol	11,000		1,020	10,200	663	101		10-126
Phenanthrene	9,090		511	10,200	870	80.5		52-121
Phenol	7,070		511	10,200	238	66.9		32-96
Pyrene	19,800		511	10,200	5,230	143	#	39-129
1,2,4-Trichlorobenzene	6,840		511	10,200		67.0		24-105
2,4,5-Trichlorophenol	9,640		511	10,200		94.4		52-121
2,4,6-Trichlorophenol	9,750		511	10,200		95.5		48-113

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	1,800		2,400	75.1	38-101
Surr: Phenol-d5	2,500		2,400	104	42-105
Surr: 2-Chlorophenol-d4	1,700		2,400	70.8	40-100
Surr: 1,2-Dichlorobenzene-d4	591		1,600	37.0	37-100
Surr: Nitrobenzene-d5	1,420		1,600	88.6	42-108
Surr: 2-Fluorobiphenyl	1,440		1,600	90.0	51-103
Surr: 2,4,6-Tribromophenol	5,930		2,400	247 #	55-115
Surr: Terphenyl-d14	3,130		1,600	196 #	55-125

Matrix Spike Dup (B1F2901-MSD1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acenaphthene	3,030		160	3,200		94.8	34-107	17.3	31
Acenaphthylene	2,820		160	3,200		88.3	48-111	19.1	30
Acetophenone	3,780		160	3,200	1,460	72.7	36-110	3.31	30
Anthracene	3,520		160	3,200	78.2	108	53-123	3.01	30
Atrazine	3,640		1,600	3,200		114	63-133	1.33	30
Benzaldehyde	3,300		320	3,200	1,400	59.6	21-102	2.12	30
Benzoic acid	22,400		16,000	3,200	14,700	241 #	10-115	2.08	30
Benzo (a) anthracene	3,200		1,600	3,200		100	58-129	0.84	30
Benzo (a) pyrene	3,830		160	3,200		120	69-125	12.8	30
Benzo (b) fluoranthene	4,150		1,600	3,200		130 #	65-126	6.71	30
Benzo (g,h,i) perylene	1,160		160	3,200		36.3 #	50-137	3.78	30
Benzo (k) fluoranthene	4,410		1,600	3,200		138 #	59-135	9.63	30
Benzyl alcohol	2,510		160	3,200		78.4	44-106	8.43	30
1,1'-Biphenyl	2,190		160	3,200		68.4	40-118	19.8	30
Bis(2-chloroethoxy)methane	3,410		160	3,200		107 #	48-103	10.9	30
Bis(2-chloroethyl)ether	1,960		160	3,200		61.3	31-104	13.1	30

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

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	1,920		160	3,200		60.0		36-102	11.7		30
Bis(2-ethylhexyl)phthalate	3,140		1,600	3,200		98.3		56-153	2.94		30
4-Bromophenyl phenyl ether	6,200		160	3,200		194	#	55-116	6.98		30
Butyl benzyl phthalate	5,880		16,000	3,200		184	#	59-140	0.56		30
Carbazole	3,460		160	3,200		108		61-133	4.27		30
Caprolactam	1,780		320	3,200		55.8		48-156	20.7		30
4-Chloroaniline	U		160	3,200		NR	#	35-102		#	30
2-Chloronaphthalene	1,950		160	3,200		61.0		48-105	17.1		30
2-Chlorophenol	2,540		160	3,200		79.4		28-94	7.68		37
4-Chlorophenyl phenyl ether	2,990		160	3,200		93.7		48-119	19.9		30
4-Chloro-3-methylphenol	3,220		160	3,200		101		38-126	14.8		36
Chrysene	3,360		1,600	3,200		105		58-128	5.02		30
Dibenzofuran	3,260		160	3,200	71.4	99.7		50-111	20.5		30
Dibenz (a,h) anthracene	3,900		160	3,200		122		62-135	11.6		30
1,2-Dichlorobenzene	1,390		160	3,200		43.5		39-97	26.9		30
1,3-Dichlorobenzene	1,410		160	3,200		44.2		38-95	11.3		30
1,4-Dichlorobenzene	1,320		160	3,200		41.4		27-83	9.37		36
3,3´-Dichlorobenzidine	U		160	3,200		NR	#	54-148		#	30
2,4-Dichlorophenol	4,080		160	3,200		128	#	50-117	11.2		30
Diethyl phthalate	3,810		1,600	3,200		119		51-136	27.9		30
2,4-Dimethylphenol	4,870		320	3,200	34.0	151	#	28-111	34.8	#	30
Dimethyl phthalate	2,670		1,600	3,200		83.4		56-117	24.0		30
2,4-Dinitrophenol	2,720		1,600	3,200		85.1		10-129	22.0		30
2,4-Dinitrotoluene	3,010		320	3,200		94.3		38-123	17.9		32
2,6-Dinitrotoluene	2,810		320	3,200	44.2	86.6		56-120	16.9		30
4,6-Dinitro-2-methylphenol	2,420		1,600	3,200		75.8		10-130	21.2		30
Di-n-butyl phthalate	2,170		1,600	3,200		68.0		51-148	3.18		30
Di-n-octyl phthalate	4,460		1,600	3,200		139	#	61-138	14.1		30
Fluoranthene	3,370		160	3,200		105		60-130	0.71		30
Fluorene	3,060		160	3,200		95.6		51-116	23.4		30

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD1)

Source: 1106038-04 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Hexachlorobenzene	5,520		160	3,200		173	#	55-116	2.41		30
Hexachlorobutadiene	1,660		160	3,200		51.8		47-102	13.3		30
Hexachlorocyclopentadiene	2,830		1,600	3,200		88.4		21-113	13.2		30
Hexachloroethane	1,810		160	3,200		56.7		36-96	9.62		30
Indeno (1,2,3-cd) pyrene	3,670		160	3,200		115		62-133	12.6		30
Isophorone	1,250		160	3,200	377	27.4	#	49-103	23.9		30
2-Methylnaphthalene	1,790		160	3,200	27.2	55.2		50-105	9.51		30
2-Methylphenol	3,260		160	3,200		102		43-102	6.83		30
3 &/or 4-Methylphenol	3,340		160	3,200	194	98.4		46-106	7.72		30
Naphthalene	2,100		160	3,200	54.4	63.9		46-102	11.5		30
2-Nitroaniline	3,340		320	3,200		104		53-124	23.3		30
3-Nitroaniline	454		320	3,200		14.2	#	51-122	5.70		30
4-Nitroaniline	U		320	3,200		NR	#	62-140		#	30
Nitrobenzene	2,400		160	3,200		75.0		44-105	12.9		30
2-Nitrophenol	3,190		160	3,200		99.9		44-114	50.2	#	30
4-Nitrophenol	3,600		1,600	3,200		113		35-138	27.5		39
N-Nitrosodiphenylamine	3,000		160	3,200		94.0		56-120	15.4		30
N-Nitrosodi-n-propylamine	1,610		160	3,200		50.4		29-97	2.52		33
Pentachlorophenol	5,310		320	3,200	408	153	#	10-126	6.11		45
Phenanthrene	5,120		160	3,200	1,150	124	#	52-121	9.22		30
Phenol	4,050		160	3,200	941	97.1	#	32-96	4.35		38
Pyrene	5,530		160	3,200		173	#	39-129	42.1	#	34
1,2,4-Trichlorobenzene	2,270		160	3,200		70.9		24-105	11.1		34
2,4,5-Trichlorophenol	2,350		160	3,200		73.5		52-121	24.1		30
2,4,6-Trichlorophenol	4,710		160	3,200		147	#	48-113	19.3		30

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 2-Fluorophenol	4,260		7,760	54.9	38-101
Surr: Phenol-d5	5,360		7,760	69.1	42-105
Surr: 2-Chlorophenol-d4	4,830		7,760	62.3	40-100
Surr: 1,2-Dichlorobenzene-d4	3,140		5,170	60.8	37-100
Surr: Nitrobenzene-d5	3,850		5,170	74.4	42-108
Surr: 2-Fluorobiphenyl	4,820		5,170	93.2	51-103
Surr: 2,4,6-Tribromophenol	9,530		7,760	123 #	55-115
Surr: Terphenyl-d14	8,390		5,170	162 #	55-125

Matrix Spike Dup (B1F2901-MSD2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acenaphthene	8,450		517	10,300		81.7	34-107	6.25	31
Acenaphthylene	8,610		517	10,300		83.3	48-111	2.32	30
Acetophenone	7,550		517	10,300	363	69.5	36-110	5.00	30
Anthracene	8,310		517	10,300	82.9	79.6	53-123	2.23	30
Atrazine	9,950		517	10,300		96.2	63-133	7.61	30
Benzaldehyde	6,430		1,030	10,300	373	58.6	21-102	7.36	30
Benzoic acid	16,200		5,170	10,300	6,410	94.4	10-115	17.8	30
Benzo (a) anthracene	10,300		517	10,300	477	94.7	58-129	9.19	30
Benzo (a) pyrene	11,100		517	10,300		108	69-125	14.3	30
Benzo (b) fluoranthene	13,500		517	10,300	2,090	110	65-126	11.2	30
Benzo (g,h,i) perylene	4,270		517	10,300	1,310	28.7 #	50-137	35.7 #	30
Benzo (k) fluoranthene	10,900		517	10,300	694	99.0	59-135	5.36	30
Benzyl alcohol	7,860		517	10,300		76.0	44-106	5.53	30
1,1'-Biphenyl	9,500		517	10,300		91.9	40-118	10.9	30
Bis(2-chloroethoxy)methane	7,260		517	10,300		70.2	48-103	2.52	30
Bis(2-chloroethyl)ether	5,840		517	10,300		56.5	31-104	5.02	30

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

Batch: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

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	6,300		517	10,300		60.9		36-102	9.26		30
Bis(2-ethylhexyl)phthalate	18,300		5,170	10,300	9,540	85.0		56-153	7.30		30
4-Bromophenyl phenyl ether	10,200		517	10,300		98.6		55-116	5.69		30
Butyl benzyl phthalate	17,700		5,170	10,300	1,800	154	#	59-140	14.3		30
Carbazole	8,460		517	10,300	114	80.7		61-133	4.59		30
Caprolactam	10,800		1,030	10,300	1,130	93.6		48-156	2.29		30
4-Chloroaniline	U		517	10,300		NR	#	35-102		#	30
2-Chloronaphthalene	8,760		517	10,300		84.7		48-105	10.8		30
2-Chlorophenol	6,960		517	10,300		67.3		28-94	2.43		37
4-Chlorophenyl phenyl ether	8,650		517	10,300		83.6		48-119	9.19		30
4-Chloro-3-methylphenol	9,090		517	10,300		87.9		38-126	3.88		36
Chrysene	16,000		517	10,300	6,000	97.0		58-128	17.3		30
Dibenzofuran	8,310		517	10,300	62.2	79.8		50-111	5.55		30
Dibenz (a,h) anthracene	8,950		517	10,300	632	80.4		62-135	18.7		30
1,2-Dichlorobenzene	6,180		517	10,300		59.8		39-97	9.96		30
1,3-Dichlorobenzene	5,920		517	10,300		57.2		38-95	13.7		30
1,4-Dichlorobenzene	5,930		517	10,300		57.3		27-83	12.9		36
3,3´-Dichlorobenzidine	145		517	10,300		1.40	#	54-148	110	#	30
2,4-Dichlorophenol	9,080		517	10,300		87.8		50-117	6.01		30
Diethyl phthalate	10,800		5,170	10,300	1,080	93.7		51-136	2.78		30
2,4-Dimethylphenol	6,120		1,030	10,300		59.2		28-111	37.8	#	30
Dimethyl phthalate	9,560		5,170	10,300		92.4		56-117	4.87		30
2,4-Dinitrophenol	11,400		5,170	10,300		111		10-129	10.2		30
2,4-Dinitrotoluene	8,820		1,030	10,300		85.3		38-123	5.06		32
2,6-Dinitrotoluene	10,500		1,030	10,300		102		56-120	4.02		30
4,6-Dinitro-2-methylphenol	9,840		5,170	10,300		95.2		10-130	12.3		30
Di-n-butyl phthalate	11,900		5,170	10,300	2,450	91.8		51-148	9.53		30
Di-n-octyl phthalate	11,100		5,170	10,300		107		61-138	4.74		30
Fluoranthene	8,470		517	10,300	2,020	62.4		60-130	8.31		30
Fluorene	8,610		517	10,300	93.3	82.4		51-116	6.91		30

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: B1F2901 **Sample Type: Solid**

Matrix Spike Dup (B1F2901-MSD2)

Source: 1106038-05 Prepared: 6/29/2011 Analyzed: 7/5/2011

Targets (Continued)

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Hexachlorobenzene	8,730		517	10,300		84.4	55-116	1.71	30
Hexachlorobutadiene	7,280		517	10,300		70.4	47-102	5.59	30
Hexachlorocyclopentadiene	941		5,170	10,300		9.10 #	21-113	47.1 #	30
Hexachloroethane	6,490		517	10,300		62.8	36-96	10.9	30
Indeno (1,2,3-cd) pyrene	8,800		517	10,300	415	81.1	62-133	12.5	30
Isophorone	8,070		517	10,300	72.5	77.3	49-103	8.54	30
2-Methylnaphthalene	8,450		517	10,300	145	80.3	50-105	8.33	30
2-Methylphenol	7,670		517	10,300		74.2	43-102	9.37	30
3 &/or 4-Methylphenol	7,460		517	10,300	72.5	71.4	46-106	7.67	30
Naphthalene	7,310		517	10,300	62.2	70.1	46-102	2.66	30
2-Nitroaniline	9,330		1,030	10,300		90.2	53-124	7.05	30
3-Nitroaniline	207		1,030	10,300		2.00 #	51-122	11.8	30
4-Nitroaniline	476		1,030	10,300		4.60 #	62-140	67.8 #	30
Nitrobenzene	7,410		517	10,300		71.7	44-105	11.0	30
2-Nitrophenol	9,010		517	10,300		87.1	44-114	10.7	30
4-Nitrophenol	12,600		5,170	10,300	2,360	98.9	35-138	12.0	39
N-Nitrosodiphenylamine	9,640		517	10,300		93.2	56-120	7.09	30
N-Nitrosodi-n-propylamine	7,250		517	10,300		70.1	29-97	6.20	33
Pentachlorophenol	11,300		1,030	10,300	663	103	10-126	3.17	45
Phenanthrene	9,470		517	10,300	870	83.2	52-121	4.11	30
Phenol	7,100		517	10,300	238	66.4	32-96	0.51	38
Pyrene	22,300	J	517	10,300	5,230	165 #	39-129	12.1	34
1,2,4-Trichlorobenzene	7,050		517	10,300		68.2	24-105	3.01	34
2,4,5-Trichlorophenol	10,900		517	10,300		105	52-121	12.0	30
2,4,6-Trichlorophenol	11,000		517	10,300		106	48-113	12.1	30

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

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

Batch: B1F2302 **Sample Type: Solid**

Blank (B1F2302-BLK1)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	25.0		25.0	99.9	41-112
Surr: Decachlorobiphenyl	23.5		25.0	94.1	49-122

Blank (B1F2302-BLK1)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Aroclor-1016	U		20.0
Aroclor-1221	U		40.0
Aroclor-1232	U		20.0
Aroclor-1242	U		20.0
Aroclor-1248	U		20.0
Aroclor-1254	U		20.0
Aroclor-1260	U		20.0
Aroclor-1268	U		20.0

LCS (B1F2302-BS1)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	23.2		25.0	93.1	41-112
Surr: Decachlorobiphenyl	41.1		25.0	165 #	49-122

Environmental Protection Agency
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Aroclors by EPA Method 8082 - GC/ECD - Quality Control

Batch: B1F2302 **Sample Type: Solid**

LCS (B1F2302-BS1)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aroclor-1268	299		20.0	250	120	70-130

LCS (B1F2302-BS2)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	26.3		25.0	105	41-112
Surr: Decachlorobiphenyl	28.4		25.0	114	49-122

LCS (B1F2302-BS2)
Prepared: 6/23/2011 Analyzed: 6/28/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aroclor-1268	48.2		20.0	40.0	121	70-130

Matrix Spike (B1F2302-MS1)
Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/28/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	25.9		29.4	88.1	41-112
Surr: Decachlorobiphenyl	43.9		29.4	149 #	49-122

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

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

Batch: B1F2302 **Sample Type: Solid**

Matrix Spike (B1F2302-MS1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/28/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aroclor-1268	302		23.5	294	23.3	94.9	50-150

Matrix Spike Dup (B1F2302-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/28/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	22.5		29.9	75.2	41-112
Surr: Decachlorobiphenyl	46.2		29.9	155 #	49-122

Matrix Spike Dup (B1F2302-MSD1)

Source: 1106038-01 Prepared: 6/23/2011 Analyzed: 6/28/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1268	275		23.9	299	23.3	84.2	50-150	9.56	30

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

Batch: B1F3001 **Sample Type: Solid**

Blank (B1F3001-BLK1)
Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	75.8		99.9	75.8	41-112
Surr: Decachlorobiphenyl	76.2		99.9	76.2	49-122

Blank (B1F3001-BLK1)
Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit
Aroclor-1016	U		20.0
Aroclor-1221	U		40.0
Aroclor-1232	U		20.0
Aroclor-1242	U		20.0
Aroclor-1248	U		20.0
Aroclor-1254	U		20.0
Aroclor-1260	U		20.0
Aroclor-1268	U		20.0

LCS (B1F3001-BS1)
Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	68.8		100	68.8	41-112
Surr: Decachlorobiphenyl	77.3		100	77.3	49-122

Environmental Protection Agency
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Aroclors by EPA Method 8082 - GC/ECD - Quality Control

Batch: B1F3001 **Sample Type: Solid**

LCS (B1F3001-BS1)

Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aroclor-1268	191		20.0	250	76.4	70-130

Matrix Spike (B1F3001-MS1)

Source: 1106038-04 Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	158		300	52.6	41-112
Surr: Decachlorobiphenyl	159		300	53.1	49-122

Matrix Spike (B1F3001-MS1)

Source: 1106038-04 Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aroclor-1268	301		20.0	500	28.9	54.4	50-150

Matrix Spike (B1F3001-MS2)

Source: 1106038-05 Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	463		590	78.5	41-112
Surr: Decachlorobiphenyl	153		590	25.9 #	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: B1F3001 **Sample Type: Solid**

Matrix Spike (B1F3001-MS2)

Source: 1106038-05 Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aroclor-1268	463		197	983	9.4	46.2 #	50-150

Matrix Spike Dup (B1F3001-MSD1)

Source: 1106038-04 Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	155		299	51.8	41-112
Surr: Decachlorobiphenyl	172		299	57.5	49-122

Matrix Spike Dup (B1F3001-MSD1)

Source: 1106038-04 Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1268	307		19.9	498	28.9	56.0	50-150	2.29	30

Matrix Spike Dup (B1F3001-MSD2)

Source: 1106038-05 Prepared: 6/30/2011 Analyzed: 7/12/2011

Surrogates

ANALYTE	Result µg/kg(dry)	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Tetrachloro-meta-xylene	373		596	62.6	41-112
Surr: Decachlorobiphenyl	119		596	20.0 #	49-122

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

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

Batch: B1F3001 **Sample Type: Solid**

Matrix Spike Dup (B1F3001-MSD2)

Source: 1106038-05 Prepared: 6/30/2011 Analyzed: 7/12/2011

Targets

ANALYTE	Result µg/kg(dry)	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1268	370		199	993	9.4	36.3 #	50-150	22.5	30

Environmental Protection Agency

Region 6 Laboratory

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DHL ANALYTICAL

2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

nelap

№ 50902

CHAIN-OF-CUSTODY

CLIENT: TCEQ/Western Solutions
ADDRESS: 2203 Bee Cave Rd, Suite 105
PHONE: 512-332-6132 FAX/E-MAIL:
DATA REPORTED TO: Phil Bredfeldt
ADDITIONAL REPORT COPIES TO:

DATE: 6/16/11 PAGE 1 OF 1
PO #:
DHL WORK ORDER #:
PROJECT LOCATION OR NAME: TCEQ Encuche
CLENT PROJECT # 0344.09.005.0012 COLLECTOR: E. Lopez

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID
P=PAINT SL=SLUDGE O=OTHER SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO3	H2SO4 ☐ NaOH ☐	ICE	UNPRESERVED	FIELD NOTES
EPA-SE-08		6/16/11	1130	O	Boxian	2				✓	✓	
SS-SE-07			1140	O		2				✓	✓	
SS-GM-01			1205	SO		2				✓	✓	
EPA-GM-04			1255	SO		2				✓	✓	
EPA-GM-05			1405	SO		2				✓	✓	
SS-SE-03		6/16/11	1405	SO	Boxian	2				✓	✓	

ANALYSES: METHOD 8021 ☐ TPH 1005 ☐ ATTY ☐ TPH 1005 ☐ GRO/METHOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ 8081 PEST ☐ PHENOL 8270 ☐ VOC 624 ☐ DRO METHOD 8015 ☐ 8321 O.P. PEST ☐ 608 PEST-PCB ☐ HCLO PHA ☐ SVOC 8260 ☐ METALS 6020 ☐ 8330 EXPL ☐ 8270 PCB ☐ PESTICIDE ☐ DISS METALS ☐ ALKALINITY ☐ ANIONS ☐ VOC ☐ PEST ☐ RCRA 8 ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ TEX ☐ TXI ☐ TCLP SVOC ☐ TCLP METALS ☐ TSS ☐ TDS ☐ TSS ☐ H ☐ ASHPOINT ☐ HRM ☐ RCI ☐ CHLORIDE ☐ ANIONS ☐ PEST ☐ RCRA 8 ☐ % MOISTURE ☐ CYANIDE ☐

TOTAL

RELINQUISHED BY: (Signature)	DATE/TIME 6/16/11 1205	RECEIVED BY: (Signature) Michael Bartlett	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature) 6/17/11 7:35	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME: RUSH ☐ CALL FIRST; 1 DAY ☐ CALL FIRST; 2 DAY ☐; NORMAL ☑; OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2°C THERM #:
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #:
☐ APC DELIVERY
☐ HAND DELIVERED

Environmental Protection Agency

Region 6 Laboratory

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

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.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
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.