

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 ----- Coffee Creek, Mossy Lake, Ouachita River
Sample Collection Date(s)-- 08/09/05 - 08/10/05
Contact ----- Jessica Franks (6WQ-EW)
Report Date ----- 12/20/05
Project # ----- 05CWA169
Work Order(s) ----- 0508013
0508014

Analyses included in this report:

Table with two columns listing various analyses such as ABN WQ Carbofuran, ABN WQ PCBs by 680, and ABN WQ Low 8270.

Report Narrative

Method 680:

Liquid samples were extracted past holding time because this method was requested after holding time had expired.

The surrogate for sample 0508013-06 recovered high due to an interference that is suppressing the internal standard. No target compounds were found in this sample.

B5H2203-BLK2 is a GPC blank.

The solid BS recovered slightly below the advisory limit of 70%. The MS and MSD were acceptable. No targets were found in the associated samples.

Report Narrative (cont'd)

Method 8081:

Liquid samples: The surrogate TCMX recovered high in samples 0508013-03 and 0508013-05 due to a coelution. Nothing was reported in the samples.

RL raised for lambda-Cyhalothrin on sample 0508013-03 due to interferences. Absence or presence at the lower RL could not be confirmed.

alpha-BHC, Endrin Aldehyde, and Heptachlor Epoxide failed low in the MSD but were acceptable in the BS and MS. The RPD for Endrin Aldehyde also failed high in the MS/MSD pair. No target compounds were found in the associated samples.

Solid samples: Due to significant matrix interferences, several reporting limits were raised on samples. Absence or presence at the lower RL could not be confirmed.

Due to lab error, sample 0508013-04 was analyzed past recommended extract holding time from Method 8081. Nothing was found in the sample.

Two compounds were slightly out of limits on the BS, MS and MSD. Nothing was found in the samples.

Method 8082:

The surrogate DCB failed slightly high in sample 0508013-06. Nothing was found in the sample.

The analyte Aroclor 1254 is qualified as outside hold time on sample 0508013-02 because the analysis for this analyte was performed past the recommended extract holding time from Method 8082.

Aroclor 1254 was found slightly below the reporting limit in sample 0508013-08 at 3.6 ug/kg. This concentration is estimated.

Method 8141:

Liquid samples: Due to lab error, Atrazine, Molinate and Methyl parathion did not meet requested reporting limit of 10 ng/l. Of those compounds only Atrazine was found above 10 ng/l. The results are as follows and should be considered estimated:

0508013-01 12 ng/l

0508013-07 13 ng/l

Atrazine was qualified as estimated with a tentative identification on sample 0508013-05. Matrix interferences prevented positive identification on both the primary and confirmatory columns.

Solid samples: Molinate failed slightly low in the BS and MSD. This compound was not found in the associated samples.

Method 8270:

Report Narrative (cont'd)

Benzoic acid, where reported in samples, is qualified as blank related due to the presence of this compound in the associated preparation blank. The concentration is also estimated due to chromatography problems on the calibration.

Due to matrix problems the samples required cleanup by Gel Permeation Chromatography (GPC). Cleanup by GPC increased the RLs by a factor of two. The following analytes were found below the RL (greater than customer requested RL) and should be considered estimated:

0508013-04 Benzo(a)anthracene 39 ug/kg, Benzo(b)fluoranthene 43 ug/kg and Benzo(k)fluoranthene 31 ug/kg
0508013-06 Anthracene 48 ug/kg
0508013-08 Fluoranthene 20 ug/kg

The surrogate 1,2-Dichlorobenzene-d4 failed low in samples 0508013-06 and 0508013-08. This indicates a low bias to recoveries for the more volatile analytes. None of the more volatile analytes (i.e. early eluters) were found at greater than 1/5 the listed RL. Therefore, the non-detects should be accurate.

B5H2203-BLK2 is a GPC blank.

Biology Ceriodaphnia Chronic:

After 7 days of exposure, there was no significant effect in the test organisms exposed to water samples 0508013-03, 0508013-05, 0508013-07, 0508014-01, and 0508014-03 or eluate samples 0508013-06 and 0508013-08. Significant effect was observed in the test organisms exposed to water samples 0508013-01, 0508014-05 and eluate samples 0508013-02, 0508013-04, 0508014-02, and 0508014-04.

Biology Pimephales Chronic:

After 7 days of exposure, there was no significant effect in the test organisms exposed to water samples 0508013-03, 0508013-05, 0508014-03 or eluate samples 0508013-02, 0508013-04, 0508013-06, 0508013-08, 0508014-02, or 0508014-04. Significant effect was observed in the test organisms exposed to water samples 0508013-01, 0508013-07, 0508014-01, and 0508014-05

Mercury Metals:

0508013 MS1/MSD1: The sample concentration for mercury exceeds the spike added concentration by more than a factor of four and no recovery determination can be made. The RPD is elevated.

0508014MSD2: The matrix spike for mercury is low. The results are qualified and may be biased low.

Metals ICP-AES

0508013-BLK1: The prep blank for iron is elevated; however, should not affect the data quality.

Report Narrative (cont'd)

0508013-BS1/SRM1: Potassium and sodium are below the reporting level and can not be reliably calculated.

0508013-BS1/MS1: Spike results for calcium and iron are high; antimony results are low. The results are qualified as possibly biased as flagged.

0508013-MS1: Sample concentrations for aluminum, calcium, iron, magnesium, manganese, potassium, and sodium exceed the spike added concentration by four and can not be reliably calculated.

0508014-BS1/SRM1: Potassium and sodium concentration are below the reporting limits and can not be reliably calculated.

0508014-MS1/MSD1: Sample concentrations for aluminum, calcium, iron, magnesium, and manganese exceed the spike added concentration by a factor of four and can not be reliably calculated.

0508014-MS1/MSD1: Matrix spike results for antimony and barium are low. The results are qualified and may be biased low. The RPD for antimony is elevated.

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

Douglas A. Lipka
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

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:



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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
Field Duplicate 01	0508013-01	Liquid	8/9/05 9:08	08/10/05 09:45
Field Duplicate 02	0508013-02	Solid	8/9/05 10:00	08/10/05 09:45
Coffee Dn 01	0508013-03	Liquid	8/9/05 11:55	08/10/05 09:45
Coffee Dn 02	0508013-04	Solid	8/9/05 12:05	08/10/05 09:45
Mossy 01	0508013-05	Liquid	8/9/05 14:30	08/10/05 09:45
Mossy 02	0508013-06	Solid	8/9/05 14:30	08/10/05 09:45
Coffee Up 01	0508013-07	Liquid	8/9/05 9:10	08/10/05 09:45
Coffee Up 02	0508013-08	Solid	8/9/05 10:00	08/10/05 09:45
Ouachita Dn 01	0508014-01	Liquid	8/10/05 9:48	08/11/05 09:30
Ouachita Dn 02	0508014-02	Solid	8/10/05 9:49	08/11/05 09:30
Ouachita Up 01	0508014-03	Liquid	8/10/05 10:23	08/11/05 09:30
Ouachita Up 02	0508014-04	Solid	8/10/05 10:14	08/11/05 09:30
Field Blank 01	0508014-05	Liquid	8/10/05 11:10	08/11/05 09:30



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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-01

Station ID: Field Duplicate 01

Batch: B5H2303

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1005ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.97		79.7	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-01

Station ID: Field Duplicate 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1031ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	36.8		75.9	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	55.8		115	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.4	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.8	"	"	"
Aroclor-1232 (11141-16-5)	U		19.4	"	"	"
Aroclor-1242 (53469-21-9)	U		19.4	"	"	"
Aroclor-1248 (12672-29-6)	U		19.4	"	"	"
Aroclor-1254 (11097-69-1)	U		19.4	"	"	"
Aroclor-1260 (11096-82-5)	U		19.4	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-01

Station ID: Field Duplicate 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1031ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	20.0		41.2	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	36.6		75.5	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.7	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.7	"	"	"
beta-BHC (319-85-7)	U		9.7	"	"	"
delta-BHC (319-86-8)	U		9.7	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.7	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.7	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.7	"	"	"
Endosulfan I (959-98-8)	U		9.7	"	"	"
Endosulfan II (33213-65-9)	U		9.7	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.7	"	"	"
Endrin (72-20-8)	U		9.7	"	"	"
Endrin aldehyde (7421-93-4)	U		9.7	"	"	"
Endrin ketone (53494-70-5)	U		9.7	"	"	"
Esfenvalerate (66230-04-4)	U		9.7	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.7	"	"	"
Methoxychlor (72-43-5)	U		9.7	"	"	"
Pendimethalin (40487-42-1)	U		485	"	"	"
Trifluralin (1582-09-8)	U		48.5	"	"	"



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Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-01

Station ID: Field Duplicate 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1031ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.7	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		58.2	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-01

Station ID: Field Duplicate 01

Batch: B5H1026

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	507		105	63-136	08/10/05	08/23/05
<i>Surr: Tributyl phosphate</i>	413		85.9	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.2	1	08/10/05	08/23/05
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		19.2	"	"	"
Molinate (2212-67-1)	U		96.2	"	"	"
Carbofuran (1563-66-2)	U		28.9	"	"	08/23/05



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 33.18g

Sample Qualifiers:

%Solids: 81.39

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	166		59.7	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	184		66.2	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	182		65.5	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	77.0		41.6	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	111		60.0	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	127		68.6	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	264		95.0	29-125	"	"
<i>Surr: Terphenyl-d14</i>	193		104	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		37.0	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		37.0	"	"	"
Acetophenone (98-86-2)	U		148	"	"	"
Anthracene (120-12-7)	U		37.0	"	"	"
Atrazine (1912-24-9)	U		148	"	"	"
Benzaldehyde (100-52-7)	U		148	"	"	"
Benzoic acid (65-85-0)	188	J, R6B	148	"	"	"
Benzo (a) anthracene (56-55-3)	U		37.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		37.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		37.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		37.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		37.0	"	"	"
Benzyl alcohol (100-51-6)	U		74.1	"	"	"
1,1'-Biphenyl (92-52-4)	U		148	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		148	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		148	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		148	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		74.1	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		148	"	"	"
Butyl benzyl phthalate (85-68-7)	U		74.1	"	"	"
Carbazole (86-74-8)	U		148	"	"	"
Caprolactam (105-60-2)	U		148	"	"	"
4-Chloroaniline (106-47-8)	U		148	"	"	"
2-Chloronaphthalene (91-58-7)	U		148	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 33.18g

Sample Qualifiers:

%Solids: 81.39

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		148	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		148	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		148	"	"	"
Chrysene (218-01-9)	U		37.0	"	"	"
Dibenzofuran (132-64-9)	U		148	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		37.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		37.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		37.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		37.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		148	"	"	"
2,4-Dichlorophenol (120-83-2)	U		148	"	"	"
Diethyl phthalate (84-66-2)	U		74.1	"	"	"
2,4-Dimethylphenol (105-67-9)	U		37.0	"	"	"
Dimethyl phthalate (131-11-3)	U		74.1	"	"	"
2,4-Dinitrophenol (51-28-5)	U		741	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		148	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		148	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		741	"	"	"
Di-n-butyl phthalate (84-74-2)	U		74.1	"	"	"
Di-n-octyl phthalate (117-84-0)	U		74.1	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		14.8	"	"	"
Fluoranthene (206-44-0)	U		37.0	"	"	"
Fluorene (86-73-7)	U		37.0	"	"	"
Hexachlorobenzene (118-74-1)	U		14.8	"	"	"
Hexachlorobutadiene (87-68-3)	U		37.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		148	"	"	"
Hexachloroethane (67-72-1)	U		148	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		37.0	"	"	"
Isophorone (78-59-1)	U		14.8	"	"	"
2-Methylnaphthalene (91-57-6)	U		37.0	"	"	"
2-Methylphenol (95-48-7)	U		74.1	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		148	"	"	"
Naphthalene (91-20-3)	U		37.0	"	"	"
2-Nitroaniline (88-74-4)	U		296	"	"	"
3-Nitroaniline (99-09-2)	U		296	"	"	"
4-Nitroaniline (100-01-6)	U		296	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 33.18g

Sample Qualifiers:

%Solids: 81.39

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		148	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		148	"	"	"
4-Nitrophenol (100-02-7)	U		444	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		37.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		148	"	"	"
Pentachlorophenol (87-86-5)	U		148	"	"	"
Phenanthrene (85-01-8)	U		37.0	"	"	"
Phenol (108-95-2)	U		148	"	"	"
Pyrene (129-00-0)	U		37.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		14.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		148	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		148	"	"	"



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Station ID: Field Duplicate 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 33.18g

Sample Qualifiers:

%Solids: 81.39

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Unknown@14.35 (NA)	190		14.35	2	08/22/05	09/01/05
Unknown@14.39 (NA)	190		14.39	"	"	"
1-Docosene (1599-67-3)	340		15.04	"	"	"
Nonacosane (630-03-5)	410		15.79	"	"	"
Hentriacontane (630-04-6)	360		16.76	"	"	"
Cholest-5-en-3-ol (3.beta.)- (57-88-5)	560		17.37	"	"	"
Ergosta-5,22-dien-3-ol, (3.beta.,22E)- (17472-78-5)	210		17.69	"	"	"
D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- (14021-23-9)	310		18.35	"	"	"
Sitosterol Isomer (NA)	640		18.87	"	"	"
Friedelin (559-74-0)	450		21.38	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



Environmental Protection Agency
Region 6 Laboratory

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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 33.18g

Sample Qualifiers:

%Solids: 81.39

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	130		70.3	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		7.4	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		7.4	"	"	"
Trichlorobiphenyls (NA)	U		7.4	"	"	"
Tetrachlorobiphenyls (NA)	U		14.8	"	"	"
Pentachlorobiphenyls (NA)	U		14.8	"	"	"
Hexachlorobiphenyls (NA)	U		14.8	"	"	"
Heptachlorobiphenyls (NA)	U		22.2	"	"	"
Octachlorobiphenyls (NA)	U		22.2	"	"	"
Nonachlorobiphenyls (NA)	U		29.5	"	"	"
Decachlorobiphenyls (NA)	U		37.0	"	"	"
Total PCBs (NA)	U			"	"	"



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

Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.26g

Sample Qualifiers:

%Solids: 81.39

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	6.57		73.2	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	8.73		97.3	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		3.6	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		7.2	"	"	09/08/05
Aroclor-1232 (11141-16-5)	U		3.6	"	"	"
Aroclor-1242 (53469-21-9)	U		3.6	"	"	"
Aroclor-1248 (12672-29-6)	U		3.6	"	"	"
Aroclor-1254 (11097-69-1)	4.5	R6HTA	3.6	"	"	10/17/05
Aroclor-1260 (11096-82-5)	12.6		3.6	"	"	09/08/05



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

Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.26g

Sample Qualifiers:

%Solids: 81.39

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	4.21		46.9	11-113	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	5.74		64.0	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.4	1	08/19/05	09/08/05
alpha-BHC (319-84-6)	U		0.4	"	"	"
beta-BHC (319-85-7)	U		0.4	"	"	"
delta-BHC (319-86-8)	U		0.4	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.4	"	"	"
Cyfluthrin (68359-37-5)	U		0.4	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.4	"	"	"
4,4'-DDD (72-54-8)	U		0.4	"	"	"
4,4'-DDE (72-55-9)	U		0.4	"	"	"
4,4'-DDT (50-29-3)	U		0.4	"	"	"
Dieldrin (60-57-1)	U		0.4	"	"	"
Endosulfan I (959-98-8)	U		0.4	"	"	"
Endosulfan II (33213-65-9)	U	RL	0.9	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.4	"	"	"
Endrin (72-20-8)	U		0.4	"	"	"
Endrin aldehyde (7421-93-4)	U		0.4	"	"	"
Endrin ketone (53494-70-5)	U	RL	0.7	"	"	"
Esfenvalerate (66230-04-4)	U		0.4	"	"	"
Heptachlor (76-44-8)	U		0.4	"	"	"
Heptachlor epoxide (1024-57-3)	U	RL	0.7	"	"	"
Methoxychlor (72-43-5)	U	RL	7.2	"	"	"
Pendimethalin (40487-42-1)	U		89.3	"	"	"
Trifluralin (1582-09-8)	U		8.9	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.26g

Sample Qualifiers:

%Solids: 81.39

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		1.8	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		10.8	"	"	"



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

Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.26g

Sample Qualifiers:

%Solids: 81.39

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	34.5		96.1	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	30.7		85.5	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		3.6	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		1.8	"	"	"
Methyl parathion (298-00-0)	U		3.6	"	"	"
Molinate (2212-67-1)	U		17.9	"	"	"
Carbofuran (1563-66-2)	U		5.4	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Metals by EPA Method 6010B - ICP

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H3001

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 2.3923g

Sample Qualifiers:

%Solids: 81.39

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,140		2.6	1	08/30/05	09/01/05
Antimony (7440-36-0)	U	L	1.5	"	"	"
Arsenic (7440-38-2)	U		2.6	"	"	"
Barium (7440-39-3)	46.8		0.3	"	"	"
Beryllium (7440-41-7)	0.3		0.1	"	"	"
Cadmium (7440-43-9)	0.3		0.1	"	"	"
Calcium (7440-70-2)	9,580	K	3.9	"	"	"
Chromium (7440-47-3)	4.9		0.3	"	"	"
Cobalt (7440-48-4)	1.1		0.5	"	"	"
Copper (7440-50-8)	4.2		0.5	"	"	"
Iron (7439-89-6)	3,310	K	0.6	"	"	"
Lead (7439-92-1)	6.5		0.8	"	"	"
Magnesium (7439-95-4)	146		3.9	"	"	"
Manganese (7439-96-5)	86.7		0.1	"	"	"
Nickel (7440-02-2)	1.5		0.5	"	"	"
Potassium (7440-09-7)	82.8		25.7	"	"	"
Selenium (7782-49-2)	U		2.6	"	"	"
Silver (7440-22-4)	U		0.3	"	"	"
Thallium (7440-28-0)	U		2.6	"	"	"
Sodium (7440-23-5)	185		12.8	"	"	"
Vanadium (7440-62-2)	9.5		0.8	"	"	"
Zinc (7440-66-6)	5.4		0.5	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5I2103

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 0.7786g

Sample Qualifiers:

%Solids: 81.39

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.2		0.01	1	08/30/05	08/31/05



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Metals by EPA Method 6020 - ICP MS

Lab ID: 0508013-02

Station ID: Field Duplicate 02

Batch: B5H3002

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 2.3923g

Sample Qualifiers:

%Solids: 81.39

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	0.7		0.1	10	08/30/05	10/28/05
Lead (7439-92-1)	6.3		0.1	"	"	"
Selenium (7782-49-2)	2.6		0.1	"	"	"
Thallium (7440-28-0)	U		0.1	"	"	"



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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-03

Station ID: Coffee Dn 01

Batch: B5H2303

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1046ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	2.89		60.5	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Region 6 Laboratory

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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-03

Station ID: Coffee Dn 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1042ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	28.2		58.8	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	53.4		111	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.2	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.4	"	"	"
Aroclor-1232 (11141-16-5)	U		19.2	"	"	"
Aroclor-1242 (53469-21-9)	U		19.2	"	"	"
Aroclor-1248 (12672-29-6)	U		19.2	"	"	"
Aroclor-1254 (11097-69-1)	U		19.2	"	"	"
Aroclor-1260 (11096-82-5)	U		19.2	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-03

Station ID: Coffee Dn 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1042ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	79.6		166 #	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	32.1		66.9	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.6	"	"	"
beta-BHC (319-85-7)	U		9.6	"	"	"
delta-BHC (319-86-8)	U		9.6	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.6	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U	RL	14.4	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.6	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.6	"	"	"
Endosulfan I (959-98-8)	U		9.6	"	"	"
Endosulfan II (33213-65-9)	U		9.6	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.6	"	"	"
Endrin (72-20-8)	U		9.6	"	"	"
Endrin aldehyde (7421-93-4)	U		9.6	"	"	"
Endrin ketone (53494-70-5)	U		9.6	"	"	"
Esfenvalerate (66230-04-4)	U		9.6	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.6	"	"	"
Methoxychlor (72-43-5)	U		9.6	"	"	"
Pendimethalin (40487-42-1)	U		480	"	"	"
Trifluralin (1582-09-8)	U		48.0	"	"	"



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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-03

Station ID: Coffee Dn 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1042ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.6	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		57.6	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-03

Station ID: Coffee Dn 01

Batch: B5H1026

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1045ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	442		92.5	63-136	08/10/05	08/23/05
<i>Surr: Tributyl phosphate</i>	438		91.6	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.1	1	08/10/05	08/23/05
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		19.1	"	"	"
Molinate (2212-67-1)	U		95.7	"	"	"
Carbofuran (1563-66-2)	U		28.7	"	"	08/23/05



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 30.17g

Sample Qualifiers:

%Solids: 71.28

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	166		47.6	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	203		58.2	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	197		56.4	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	70.7		30.3	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	116		49.8	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	162		69.5	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	358		103	29-125	"	"
<i>Surr: Terphenyl-d14</i>	262		112	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		46.5	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		46.5	"	"	"
Acetophenone (98-86-2)	U		186	"	"	"
Anthracene (120-12-7)	371		46.5	"	"	"
Atrazine (1912-24-9)	U		186	"	"	"
Benzaldehyde (100-52-7)	U		186	"	"	"
Benzoic acid (65-85-0)	240	J, R6B	186	"	"	"
Benzo (a) anthracene (56-55-3)	U		46.5	"	"	"
Benzo (a) pyrene (50-32-8)	U		46.5	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		46.5	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		46.5	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		46.5	"	"	"
Benzyl alcohol (100-51-6)	U		93.0	"	"	"
1,1'-Biphenyl (92-52-4)	U		186	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		186	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		186	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		186	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		93.0	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		186	"	"	"
Butyl benzyl phthalate (85-68-7)	U		93.0	"	"	"
Carbazole (86-74-8)	U		186	"	"	"
Caprolactam (105-60-2)	U		186	"	"	"
4-Chloroaniline (106-47-8)	U		186	"	"	"
2-Chloronaphthalene (91-58-7)	U		186	"	"	"



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

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H2203
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 30.17g
 %Solids: 71.28

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		186	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		186	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		186	"	"	"
Chrysene (218-01-9)	80.0		46.5	"	"	"
Dibenzofuran (132-64-9)	U		186	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		46.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		46.5	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		46.5	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		46.5	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		186	"	"	"
2,4-Dichlorophenol (120-83-2)	U		186	"	"	"
Diethyl phthalate (84-66-2)	U		93.0	"	"	"
2,4-Dimethylphenol (105-67-9)	U		46.5	"	"	"
Dimethyl phthalate (131-11-3)	U		93.0	"	"	"
2,4-Dinitrophenol (51-28-5)	U		930	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		186	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		186	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		930	"	"	"
Di-n-butyl phthalate (84-74-2)	U		93.0	"	"	"
Di-n-octyl phthalate (117-84-0)	U		93.0	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		18.6	"	"	"
Fluoranthene (206-44-0)	150		46.5	"	"	"
Fluorene (86-73-7)	U		46.5	"	"	"
Hexachlorobenzene (118-74-1)	U		18.6	"	"	"
Hexachlorobutadiene (87-68-3)	U		46.5	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		186	"	"	"
Hexachloroethane (67-72-1)	U		186	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		46.5	"	"	"
Isophorone (78-59-1)	U		18.6	"	"	"
2-Methylnaphthalene (91-57-6)	U		46.5	"	"	"
2-Methylphenol (95-48-7)	U		93.0	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		186	"	"	"
Naphthalene (91-20-3)	U		46.5	"	"	"
2-Nitroaniline (88-74-4)	U		372	"	"	"
3-Nitroaniline (99-09-2)	U		372	"	"	"
4-Nitroaniline (100-01-6)	U		372	"	"	"



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

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 30.17g

Sample Qualifiers:

%Solids: 71.28

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		186	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		186	"	"	"
4-Nitrophenol (100-02-7)	U		558	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		46.5	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		186	"	"	"
Pentachlorophenol (87-86-5)	U		186	"	"	"
Phenanthrene (85-01-8)	53.9		46.5	"	"	"
Phenol (108-95-2)	U		186	"	"	"
Pyrene (129-00-0)	122		46.5	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		18.6	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		186	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		186	"	"	"



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 30.17g

Sample Qualifiers:

%Solids: 71.28

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecanoic acid (57-10-3)	3,200		12.41	2	08/22/05	09/01/05
Unknown PAH (NA)	2,500		12.57	"	"	"
Unknown ester (NA)	3,200		12.59	"	"	"
Unknown@12.95 (NA)	2,000		12.95	"	"	"
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl (None)	2,100		14.41	"	"	"
Stigmasterol (83-48-7)	2,500		18.40	"	"	"
Sitosterol Isomer (NA)	6,000		18.90	"	"	"
C29H52O isomer (NA)	3,400		19.01	"	"	"
C29H50O isomer (NA)	1,800		19.40	"	"	"
Stigmast-4-en-3-one (1058-61-3)	1,800		20.25	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



Environmental Protection Agency
Region 6 Laboratory

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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 30.17g

Sample Qualifiers:

%Solids: 71.28

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	184		79.0	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		9.3	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		9.3	"	"	"
Trichlorobiphenyls (NA)	U		9.3	"	"	"
Tetrachlorobiphenyls (NA)	U		18.6	"	"	"
Pentachlorobiphenyls (NA)	U		18.6	"	"	"
Hexachlorobiphenyls (NA)	U		18.6	"	"	"
Heptachlorobiphenyls (NA)	U		27.9	"	"	"
Octachlorobiphenyls (NA)	U		27.9	"	"	"
Nonachlorobiphenyls (NA)	U		37.1	"	"	"
Decachlorobiphenyls (NA)	U		46.5	"	"	"
Total PCBs (NA)	U			"	"	"



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

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.58g

Sample Qualifiers:

%Solids: 71.28

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	7.20		71.3	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	11.2		111	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		4.1	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		8.1	"	"	"
Aroclor-1232 (11141-16-5)	U		4.1	"	"	"
Aroclor-1242 (53469-21-9)	U		4.1	"	"	"
Aroclor-1248 (12672-29-6)	U		4.1	"	"	"
Aroclor-1254 (11097-69-1)	U		4.1	"	"	"
Aroclor-1260 (11096-82-5)	U		4.1	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.58g

Sample Qualifiers: R6HTS

%Solids: 71.28

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	4.00		39.6	11-113	08/19/05	09/28/05
<i>Surr: Decachlorobiphenyl</i>	5.61		55.5	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U	RL	1.6	1	08/19/05	09/28/05
alpha-BHC (319-84-6)	U		0.4	"	"	"
beta-BHC (319-85-7)	U		0.4	"	"	"
delta-BHC (319-86-8)	U		0.4	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.4	"	"	"
Cyfluthrin (68359-37-5)	U		0.4	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.4	"	"	"
4,4'-DDD (72-54-8)	U		0.4	"	"	"
4,4'-DDE (72-55-9)	U		0.4	"	"	"
4,4'-DDT (50-29-3)	U		0.4	"	"	"
Dieldrin (60-57-1)	U	RL	1.0	"	"	"
Endosulfan I (959-98-8)	U		0.4	"	"	"
Endosulfan II (33213-65-9)	U		0.4	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.4	"	"	"
Endrin (72-20-8)	U		0.4	"	"	"
Endrin aldehyde (7421-93-4)	U		0.4	"	"	"
Endrin ketone (53494-70-5)	U	RL	1.2	"	"	"
Esfenvalerate (66230-04-4)	U		0.4	"	"	"
Heptachlor (76-44-8)	U		0.4	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.4	"	"	"
Methoxychlor (72-43-5)	U	RL	8.1	"	"	"
Pendimethalin (40487-42-1)	U		101	"	"	"
Trifluralin (1582-09-8)	U		10.1	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.58g

Sample Qualifiers:

%Solids: 71.28

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.0	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		12.2	"	"	"



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Region 6 Laboratory

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

Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 34.58g

Sample Qualifiers:

%Solids: 71.28

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	41.4		102	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	35.4		87.2	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		4.1	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		2.0	"	"	"
Methyl parathion (298-00-0)	U		4.1	"	"	"
Molinate (2212-67-1)	U		20.3	"	"	"
Carbofuran (1563-66-2)	U		6.1	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Metals by EPA Method 6010B - ICP

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H3001
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 1.5108g
 %Solids: 71.28

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	1,460		4.6	1	08/30/05	09/01/05
Antimony (7440-36-0)	U	L	2.8	"	"	"
Arsenic (7440-38-2)	U		4.6	"	"	"
Barium (7440-39-3)	56.3		0.5	"	"	"
Beryllium (7440-41-7)	U		0.2	"	"	"
Cadmium (7440-43-9)	0.3		0.2	"	"	"
Calcium (7440-70-2)	2,270	K	7.0	"	"	"
Chromium (7440-47-3)	2.8		0.5	"	"	"
Cobalt (7440-48-4)	1.1		0.9	"	"	"
Copper (7440-50-8)	5.7		0.9	"	"	"
Iron (7439-89-6)	1,560	K	1.2	"	"	"
Lead (7439-92-1)	3.1		1.4	"	"	"
Magnesium (7439-95-4)	211		7.0	"	"	"
Manganese (7439-96-5)	128		0.2	"	"	"
Nickel (7440-02-2)	2.2		0.9	"	"	"
Potassium (7440-09-7)	126		46.4	"	"	"
Selenium (7782-49-2)	U		4.6	"	"	"
Silver (7440-22-4)	U		0.5	"	"	"
Thallium (7440-28-0)	U		4.6	"	"	"
Sodium (7440-23-5)	405		23.2	"	"	"
Vanadium (7440-62-2)	4.6		1.4	"	"	"
Zinc (7440-66-6)	48.3		0.9	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5I2103
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 0.7612g
 %Solids: 71.28

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.01	1	08/30/05	08/31/05



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Region 6 Laboratory

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Metals by EPA Method 6020 - ICP MS

Lab ID: 0508013-04

Station ID: Coffee Dn 02

Batch: B5H3002

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 1.5108g

Sample Qualifiers:

%Solids: 71.28

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	0.5		0.2	10	08/30/05	10/28/05
Lead (7439-92-1)	3.1		0.2	"	"	"
Selenium (7782-49-2)	0.8		0.2	"	"	"
Thallium (7440-28-0)	U		0.2	"	"	"



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Region 6 Laboratory

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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-05

Station ID: Mossy 01

Batch: B5H2303

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1045ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	2.87		60.0	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Region 6 Laboratory

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

Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-05

Station ID: Mossy 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1030ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	26.6		54.8	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	54.0		111	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.4	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.8	"	"	"
Aroclor-1232 (11141-16-5)	U		19.4	"	"	"
Aroclor-1242 (53469-21-9)	U		19.4	"	"	"
Aroclor-1248 (12672-29-6)	U		19.4	"	"	"
Aroclor-1254 (11097-69-1)	U		19.4	"	"	"
Aroclor-1260 (11096-82-5)	U		19.4	"	"	"



Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-05

Station ID: Mossy 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1030ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	44.5		91.8 #	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	31.9		65.8	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.7	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.7	"	"	"
beta-BHC (319-85-7)	U		9.7	"	"	"
delta-BHC (319-86-8)	U		9.7	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.7	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.7	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.7	"	"	"
Endosulfan I (959-98-8)	U		9.7	"	"	"
Endosulfan II (33213-65-9)	U		9.7	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.7	"	"	"
Endrin (72-20-8)	U		9.7	"	"	"
Endrin aldehyde (7421-93-4)	U		9.7	"	"	"
Endrin ketone (53494-70-5)	U		9.7	"	"	"
Esfenvalerate (66230-04-4)	U		9.7	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.7	"	"	"
Methoxychlor (72-43-5)	U		9.7	"	"	"
Pendimethalin (40487-42-1)	U		485	"	"	"
Trifluralin (1582-09-8)	U		48.5	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-05

Station ID: Mossy 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1030ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.7	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		58.3	"	"	"



Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-05

Station ID: Mossy 01

Batch: B5H1026

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1037ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	376		78.0	63-136	08/10/05	08/23/05
<i>Surr: Tributyl phosphate</i>	394		81.7	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	20.1	NJ	19.3	1	08/10/05	08/23/05
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		19.3	"	"	"
Molinate (2212-67-1)	U		96.4	"	"	"
Carbofuran (1563-66-2)	U		28.9	"	"	08/23/05



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

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 48.96

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	199		41.8	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	244		51.3	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	221		46.4	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	81.2		25.6 #	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	134		42.3	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	171		53.9	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	399		83.8	29-125	"	"
<i>Surr: Terphenyl-d14</i>	252		79.5	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		63.4	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		63.4	"	"	"
Acetophenone (98-86-2)	U		254	"	"	"
Anthracene (120-12-7)	U		63.4	"	"	"
Atrazine (1912-24-9)	U		254	"	"	"
Benzaldehyde (100-52-7)	U		254	"	"	"
Benzoic acid (65-85-0)	326	J, R6B	254	"	"	"
Benzo (a) anthracene (56-55-3)	U		63.4	"	"	"
Benzo (a) pyrene (50-32-8)	U		63.4	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		63.4	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		63.4	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		63.4	"	"	"
Benzyl alcohol (100-51-6)	U		127	"	"	"
1,1'-Biphenyl (92-52-4)	U		254	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		254	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		254	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		254	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		127	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		254	"	"	"
Butyl benzyl phthalate (85-68-7)	U		127	"	"	"
Carbazole (86-74-8)	U		254	"	"	"
Caprolactam (105-60-2)	U		254	"	"	"
4-Chloroaniline (106-47-8)	U		254	"	"	"
2-Chloronaphthalene (91-58-7)	U		254	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H2203
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 32.21g
 %Solids: 48.96

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		254	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		254	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		254	"	"	"
Chrysene (218-01-9)	U		63.4	"	"	"
Dibenzofuran (132-64-9)	U		254	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		63.4	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		63.4	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		63.4	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		63.4	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		254	"	"	"
2,4-Dichlorophenol (120-83-2)	U		254	"	"	"
Diethyl phthalate (84-66-2)	U		127	"	"	"
2,4-Dimethylphenol (105-67-9)	U		63.4	"	"	"
Dimethyl phthalate (131-11-3)	U		127	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,270	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		254	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		254	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,270	"	"	"
Di-n-butyl phthalate (84-74-2)	U		127	"	"	"
Di-n-octyl phthalate (117-84-0)	U		127	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		25.4	"	"	"
Fluoranthene (206-44-0)	U		63.4	"	"	"
Fluorene (86-73-7)	U		63.4	"	"	"
Hexachlorobenzene (118-74-1)	U		25.4	"	"	"
Hexachlorobutadiene (87-68-3)	U		63.4	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		254	"	"	"
Hexachloroethane (67-72-1)	U		254	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		63.4	"	"	"
Isophorone (78-59-1)	U		25.4	"	"	"
2-Methylnaphthalene (91-57-6)	U		63.4	"	"	"
2-Methylphenol (95-48-7)	U		127	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		254	"	"	"
Naphthalene (91-20-3)	U		63.4	"	"	"
2-Nitroaniline (88-74-4)	U		507	"	"	"
3-Nitroaniline (99-09-2)	U		507	"	"	"
4-Nitroaniline (100-01-6)	U		507	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 48.96

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		254	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		254	"	"	"
4-Nitrophenol (100-02-7)	U		761	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		63.4	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		254	"	"	"
Pentachlorophenol (87-86-5)	U		254	"	"	"
Phenanthrene (85-01-8)	U		63.4	"	"	"
Phenol (108-95-2)	U		254	"	"	"
Pyrene (129-00-0)	U		63.4	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		254	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		25.4	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		254	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 48.96

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
4b,8-Dimethyl-2-isopropylphenanthrene..... (None)	7,000		12.88	2	08/22/05	09/01/05
Simonellite Isomer@13.42 (NA)	100,000		13.42	"	"	"
Simonellite Isomer@13.59 (NA)	16,000		13.59	"	"	"
Unknown@14.06 (NA)	19,000		14.06	"	"	"
Unknown@14.41 (NA)	15,000		14.41	"	"	"
Unknown@14.55 (NA)	27,000		14.55	"	"	"
Unknown@15.03 (NA)	10,000		15.03	"	"	"
Sugiol (511-05-7)	6,300		15.07	"	"	"
Unknown@18.01 (NA)	6,200		18.01	"	"	"
Sitosterol Isomer (NA)	5,200		18.93	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



Environmental Protection Agency
Region 6 Laboratory

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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 48.96

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	623		197 #	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		12.7	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		12.7	"	"	"
Trichlorobiphenyls (NA)	U		12.7	"	"	"
Tetrachlorobiphenyls (NA)	U		25.4	"	"	"
Pentachlorobiphenyls (NA)	U		25.4	"	"	"
Hexachlorobiphenyls (NA)	U		25.4	"	"	"
Heptachlorobiphenyls (NA)	U		38.0	"	"	"
Octachlorobiphenyls (NA)	U		38.0	"	"	"
Nonachlorobiphenyls (NA)	U		50.6	"	"	"
Decachlorobiphenyls (NA)	U		63.3	"	"	"
Total PCBs (NA)	U			"	"	"



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10625 Fallstone Road, Houston, TX 77099
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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H1905
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 32.01g
 %Solids: 48.96

Sample Qualifiers:

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	13.6		85.0	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	19.1		119 #	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		6.4	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		12.8	"	"	"
Aroclor-1232 (11141-16-5)	U		6.4	"	"	"
Aroclor-1242 (53469-21-9)	U		6.4	"	"	"
Aroclor-1248 (12672-29-6)	U		6.4	"	"	"
Aroclor-1254 (11097-69-1)	U		6.4	"	"	"
Aroclor-1260 (11096-82-5)	U		6.4	"	"	"



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Region 6 Laboratory

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

Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.01g

Sample Qualifiers:

%Solids: 48.96

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	9.56		59.8	11-113	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	9.49		59.3	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U	RL	6.4	1	08/19/05	09/08/05
alpha-BHC (319-84-6)	U		0.6	"	"	"
beta-BHC (319-85-7)	U		0.6	"	"	"
delta-BHC (319-86-8)	U		0.6	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.6	"	"	"
Cyfluthrin (68359-37-5)	U		0.6	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.6	"	"	"
4,4'-DDD (72-54-8)	U		0.6	"	"	"
4,4'-DDE (72-55-9)	U		0.6	"	"	"
4,4'-DDT (50-29-3)	U		0.6	"	"	"
Dieldrin (60-57-1)	U		0.6	"	"	"
Endosulfan I (959-98-8)	U		0.6	"	"	"
Endosulfan II (33213-65-9)	U	RL	6.4	"	"	"
Endosulfan sulfate (1031-07-8)	U	RL	6.4	"	"	"
Endrin (72-20-8)	U		0.6	"	"	"
Endrin aldehyde (7421-93-4)	U		0.6	"	"	"
Endrin ketone (53494-70-5)	U	RL	6.4	"	"	"
Esfenvalerate (66230-04-4)	U	RL	6.4	"	"	"
Heptachlor (76-44-8)	U		0.6	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.6	"	"	"
Methoxychlor (72-43-5)	U	RL	12.7	"	"	"
Pendimethalin (40487-42-1)	U		159	"	"	"
Trifluralin (1582-09-8)	U		15.9	"	"	"



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Region 6 Laboratory

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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.01g

Sample Qualifiers:

%Solids: 48.96

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		3.2	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		19.1	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.01g

Sample Qualifiers:

%Solids: 48.96

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	72.5		114	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	65.5		103	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		6.4	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		3.2	"	"	"
Methyl parathion (298-00-0)	U		6.4	"	"	"
Molinate (2212-67-1)	U		31.9	"	"	"
Carbofuran (1563-66-2)	U		9.6	"	"	"



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Metals by EPA Method 6010B - ICP

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H3001
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 1.3543g
 %Solids: 48.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	4,480		7.5	1	08/30/05	09/01/05
Antimony (7440-36-0)	U	L	4.5	"	"	"
Arsenic (7440-38-2)	U		7.5	"	"	"
Barium (7440-39-3)	102		0.8	"	"	"
Beryllium (7440-41-7)	0.5		0.4	"	"	"
Cadmium (7440-43-9)	1.0		0.4	"	"	"
Calcium (7440-70-2)	3,570	K	11.3	"	"	"
Chromium (7440-47-3)	7.0		0.8	"	"	"
Cobalt (7440-48-4)	4.3		1.5	"	"	"
Copper (7440-50-8)	10.1		1.5	"	"	"
Iron (7439-89-6)	5,820	K	1.9	"	"	"
Lead (7439-92-1)	7.8		2.3	"	"	"
Magnesium (7439-95-4)	483		11.3	"	"	"
Manganese (7439-96-5)	292		0.4	"	"	"
Nickel (7440-02-2)	5.4		1.5	"	"	"
Potassium (7440-09-7)	457		75.4	"	"	"
Selenium (7782-49-2)	U		7.5	"	"	"
Silver (7440-22-4)	U		0.8	"	"	"
Thallium (7440-28-0)	U		7.5	"	"	"
Sodium (7440-23-5)	814		37.7	"	"	"
Vanadium (7440-62-2)	11.5		2.3	"	"	"
Zinc (7440-66-6)	158		1.5	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5I2103
 Sample Type: Solid

Date Collected: 08/09/05
 Sample Wet Weight: 0.5987g
 %Solids: 48.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.07		0.03	1	08/30/05	08/31/05



Environmental Protection Agency
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Metals by EPA Method 6020 - ICP MS

Lab ID: 0508013-06

Station ID: Mossy 02

Batch: B5H3002
Sample Type: Solid

Date Collected: 08/09/05
Sample Wet Weight: 1.3543g
%Solids: 48.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	1.5		0.4	10	08/30/05	10/28/05
Lead (7439-92-1)	9.0		0.4	"	"	"
Selenium (7782-49-2)	2.6		0.4	"	"	"
Thallium (7440-28-0)	U		0.4	"	"	"



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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-07

Station ID: Coffee Up 01

Batch: B5H2303

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.69		76.7	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-07

Station ID: Coffee Up 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1037ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	38.8		80.5	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	55.9		116	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.3	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.6	"	"	"
Aroclor-1232 (11141-16-5)	U		19.3	"	"	"
Aroclor-1242 (53469-21-9)	U		19.3	"	"	"
Aroclor-1248 (12672-29-6)	U		19.3	"	"	"
Aroclor-1254 (11097-69-1)	U		19.3	"	"	"
Aroclor-1260 (11096-82-5)	U		19.3	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-07

Station ID: Coffee Up 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1037ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	20.0		41.5	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	37.6		78.0	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.6	"	"	"
beta-BHC (319-85-7)	U		9.6	"	"	"
delta-BHC (319-86-8)	U		9.6	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.6	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.6	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.6	"	"	"
Endosulfan I (959-98-8)	U		9.6	"	"	"
Endosulfan II (33213-65-9)	U		9.6	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.6	"	"	"
Endrin (72-20-8)	U		9.6	"	"	"
Endrin aldehyde (7421-93-4)	U		9.6	"	"	"
Endrin ketone (53494-70-5)	U		9.6	"	"	"
Esfenvalerate (66230-04-4)	U		9.6	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.6	"	"	"
Methoxychlor (72-43-5)	U		9.6	"	"	"
Pendimethalin (40487-42-1)	U		482	"	"	"
Trifluralin (1582-09-8)	U		48.2	"	"	"



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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-07

Station ID: Coffee Up 01

Batch: B5H1501

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1037ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.6	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		57.9	"	"	"



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Region 6 Laboratory

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

Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-07

Station ID: Coffee Up 01

Batch: B5H1026

Date Collected: 08/09/05

Sample Type: Liquid

Sample Volume: 1038ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	586		122	63-136	08/10/05	08/23/05
<i>Surr: Tributyl phosphate</i>	482		100	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.3	1	08/10/05	08/23/05
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		19.3	"	"	"
Molinate (2212-67-1)	U		96.3	"	"	"
Carbofuran (1563-66-2)	U		28.9	"	"	08/23/05



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.16g

Sample Qualifiers:

%Solids: 80.63

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	115		39.8	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	149		51.6	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	126		43.6	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	27.8		14.4 #	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	64.8		33.6	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	84.5		43.8	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	254		87.9	29-125	"	"
<i>Surr: Terphenyl-d14</i>	191		99.0	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		38.6	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		38.6	"	"	"
Acetophenone (98-86-2)	U		154	"	"	"
Anthracene (120-12-7)	U		38.6	"	"	"
Atrazine (1912-24-9)	U		154	"	"	"
Benzaldehyde (100-52-7)	U		154	"	"	"
Benzoic acid (65-85-0)	176	J, R6B	154	"	"	"
Benzo (a) anthracene (56-55-3)	U		38.6	"	"	"
Benzo (a) pyrene (50-32-8)	U		38.6	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		38.6	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		38.6	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		38.6	"	"	"
Benzyl alcohol (100-51-6)	U		77.1	"	"	"
1,1'-Biphenyl (92-52-4)	U		154	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		154	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		154	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		154	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		77.1	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		154	"	"	"
Butyl benzyl phthalate (85-68-7)	U		77.1	"	"	"
Carbazole (86-74-8)	U		154	"	"	"
Caprolactam (105-60-2)	U		154	"	"	"
4-Chloroaniline (106-47-8)	U		154	"	"	"
2-Chloronaphthalene (91-58-7)	U		154	"	"	"



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.16g

Sample Qualifiers:

%Solids: 80.63

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		154	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		154	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		154	"	"	"
Chrysene (218-01-9)	U		38.6	"	"	"
Dibenzofuran (132-64-9)	U		154	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		38.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		38.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		38.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		38.6	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		154	"	"	"
2,4-Dichlorophenol (120-83-2)	U		154	"	"	"
Diethyl phthalate (84-66-2)	U		77.1	"	"	"
2,4-Dimethylphenol (105-67-9)	U		38.6	"	"	"
Dimethyl phthalate (131-11-3)	U		77.1	"	"	"
2,4-Dinitrophenol (51-28-5)	U		771	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		154	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		154	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		771	"	"	"
Di-n-butyl phthalate (84-74-2)	U		77.1	"	"	"
Di-n-octyl phthalate (117-84-0)	U		77.1	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		15.4	"	"	"
Fluoranthene (206-44-0)	U		38.6	"	"	"
Fluorene (86-73-7)	U		38.6	"	"	"
Hexachlorobenzene (118-74-1)	U		15.4	"	"	"
Hexachlorobutadiene (87-68-3)	U		38.6	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		154	"	"	"
Hexachloroethane (67-72-1)	U		154	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		38.6	"	"	"
Isophorone (78-59-1)	U		15.4	"	"	"
2-Methylnaphthalene (91-57-6)	U		38.6	"	"	"
2-Methylphenol (95-48-7)	U		77.1	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		154	"	"	"
Naphthalene (91-20-3)	U		38.6	"	"	"
2-Nitroaniline (88-74-4)	U		308	"	"	"
3-Nitroaniline (99-09-2)	U		308	"	"	"
4-Nitroaniline (100-01-6)	U		308	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.16g

Sample Qualifiers:

%Solids: 80.63

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		154	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		154	"	"	"
4-Nitrophenol (100-02-7)	U		463	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		38.6	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		154	"	"	"
Pentachlorophenol (87-86-5)	U		154	"	"	"
Phenanthrene (85-01-8)	U		38.6	"	"	"
Phenol (108-95-2)	U		154	"	"	"
Pyrene (129-00-0)	U		38.6	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		15.4	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		154	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		154	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.16g

Sample Qualifiers:

%Solids: 80.63

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecanoic acid (57-10-3)	230		12.38	2	08/22/05	09/01/05
Simonellite Isomer (NA)	260		13.32	"	"	"
1-Docosene (1599-67-3)	400		15.04	"	"	"
Nonacosane (630-03-5)	270		15.79	"	"	"
Hentriacontane (630-04-6)	280		16.76	"	"	"
Cholest-5-en-3-ol (3.beta.)- (57-88-5)	350		17.36	"	"	"
D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- (14021-23-9)	270		18.35	"	"	"
Sitosterol Isomer (NA)	620		18.86	"	"	"
Unknown (NA)	270		19.37	"	"	"
Friedelin (559-74-0)	1,600		21.39	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



Environmental Protection Agency
Region 6 Laboratory

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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H2203

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.16g

Sample Qualifiers:

%Solids: 80.63

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	86.4		44.8	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		7.7	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		7.7	"	"	"
Trichlorobiphenyls (NA)	U		7.7	"	"	"
Tetrachlorobiphenyls (NA)	U		15.4	"	"	"
Pentachlorobiphenyls (NA)	U		15.4	"	"	"
Hexachlorobiphenyls (NA)	U		15.4	"	"	"
Heptachlorobiphenyls (NA)	U		23.1	"	"	"
Octachlorobiphenyls (NA)	U		23.1	"	"	"
Nonachlorobiphenyls (NA)	U		30.8	"	"	"
Decachlorobiphenyls (NA)	U		38.5	"	"	"
Total PCBs (NA)	U			"	"	"



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

Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.27g

Sample Qualifiers:

%Solids: 80.63

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	5.66		58.9	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	10.8		112	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		3.8	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		7.7	"	"	"
Aroclor-1232 (11141-16-5)	U		3.8	"	"	"
Aroclor-1242 (53469-21-9)	U		3.8	"	"	"
Aroclor-1248 (12672-29-6)	U		3.8	"	"	"
Aroclor-1254 (11097-69-1)	U		3.8	"	"	"
Aroclor-1260 (11096-82-5)	6.5		3.8	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.27g

Sample Qualifiers:

%Solids: 80.63

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	3.46		36.0	11-113	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	6.30		65.6	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U	RL	0.8	1	08/19/05	09/08/05
alpha-BHC (319-84-6)	U		0.4	"	"	"
beta-BHC (319-85-7)	U		0.4	"	"	"
delta-BHC (319-86-8)	U		0.4	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.4	"	"	"
Cyfluthrin (68359-37-5)	U		0.4	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.4	"	"	"
4,4'-DDD (72-54-8)	U		0.4	"	"	"
4,4'-DDE (72-55-9)	U		0.4	"	"	"
4,4'-DDT (50-29-3)	U		0.4	"	"	"
Dieldrin (60-57-1)	U	RL	0.6	"	"	"
Endosulfan I (959-98-8)	U		0.4	"	"	"
Endosulfan II (33213-65-9)	U	RL	1.0	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.4	"	"	"
Endrin (72-20-8)	U		0.4	"	"	"
Endrin aldehyde (7421-93-4)	U		0.4	"	"	"
Endrin ketone (53494-70-5)	U		0.4	"	"	"
Esfenvalerate (66230-04-4)	U		0.4	"	"	"
Heptachlor (76-44-8)	U		0.4	"	"	"
Heptachlor epoxide (1024-57-3)	U	RL	0.6	"	"	"
Methoxychlor (72-43-5)	U	RL	7.7	"	"	"
Pendimethalin (40487-42-1)	U		95.7	"	"	"
Trifluralin (1582-09-8)	U		9.6	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.27g

Sample Qualifiers:

%Solids: 80.63

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		1.9	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		11.5	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H1905

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 32.27g

Sample Qualifiers:

%Solids: 80.63

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	39.2		102	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	39.6		103	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		3.8	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		1.9	"	"	"
Methyl parathion (298-00-0)	U		3.8	"	"	"
Molinate (2212-67-1)	U		19.2	"	"	"
Carbofuran (1563-66-2)	U		5.8	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Metals by EPA Method 6010B - ICP

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H3001

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 1.6382g

Sample Qualifiers:

%Solids: 80.63

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	3,140		3.8	1	08/30/05	09/01/05
Antimony (7440-36-0)	U	L	2.3	"	"	09/01/05
Arsenic (7440-38-2)	U		3.8	"	"	"
Barium (7440-39-3)	52.2		0.4	"	"	09/01/05
Beryllium (7440-41-7)	0.3		0.2	"	"	"
Cadmium (7440-43-9)	0.3		0.2	"	"	09/01/05
Calcium (7440-70-2)	11,300	K	5.7	"	"	09/01/05
Chromium (7440-47-3)	5.7		0.4	"	"	09/01/05
Cobalt (7440-48-4)	1.2		0.8	"	"	"
Copper (7440-50-8)	4.5		0.8	"	"	09/01/05
Iron (7439-89-6)	3,380	K	0.9	"	"	"
Lead (7439-92-1)	6.7		1.1	"	"	09/01/05
Magnesium (7439-95-4)	156		5.7	"	"	"
Manganese (7439-96-5)	106		0.2	"	"	09/01/05
Nickel (7440-02-2)	1.7		0.8	"	"	09/01/05
Potassium (7440-09-7)	88.3		37.9	"	"	09/01/05
Selenium (7782-49-2)	U		3.8	"	"	09/01/05
Silver (7440-22-4)	U		0.4	"	"	09/01/05
Thallium (7440-28-0)	U		3.8	"	"	09/01/05
Sodium (7440-23-5)	201		18.9	"	"	09/01/05
Vanadium (7440-62-2)	9.6		1.1	"	"	09/01/05
Zinc (7440-66-6)	6.4		0.8	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5I2103

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 0.9265g

Sample Qualifiers:

%Solids: 80.63

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.3		0.01	1	08/30/05	08/31/05



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Metals by EPA Method 6020 - ICP MS

Lab ID: 0508013-08

Station ID: Coffee Up 02

Batch: B5H3002

Date Collected: 08/09/05

Sample Type: Solid

Sample Wet Weight: 1.6382g

Sample Qualifiers:

%Solids: 80.63

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	0.8		0.2	10	08/30/05	10/28/05
Lead (7439-92-1)	6.6		0.2	"	"	"
Selenium (7782-49-2)	3.0		0.2	"	"	"
Thallium (7440-28-0)	U		0.2	"	"	"



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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508014-01

Station ID: Ouachita Dn 01

Batch: B5H2303

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1036ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.37		69.8	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508014-01

Station ID: Ouachita Dn 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	41.2		85.7	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	64.6		134	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.2	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.5	"	"	"
Aroclor-1232 (11141-16-5)	U		19.2	"	"	"
Aroclor-1242 (53469-21-9)	U		19.2	"	"	"
Aroclor-1248 (12672-29-6)	U		19.2	"	"	"
Aroclor-1254 (11097-69-1)	U		19.2	"	"	"
Aroclor-1260 (11096-82-5)	U		19.2	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508014-01

Station ID: Ouachita Dn 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	23.4		48.6	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	37.3		77.5	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.6	"	"	"
beta-BHC (319-85-7)	U		9.6	"	"	"
delta-BHC (319-86-8)	U		9.6	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.6	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.6	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.6	"	"	"
Endosulfan I (959-98-8)	U		9.6	"	"	"
Endosulfan II (33213-65-9)	U		9.6	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.6	"	"	"
Endrin (72-20-8)	U		9.6	"	"	"
Endrin aldehyde (7421-93-4)	U		9.6	"	"	"
Endrin ketone (53494-70-5)	U		9.6	"	"	"
Esfenvalerate (66230-04-4)	U		9.6	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.6	"	"	"
Methoxychlor (72-43-5)	U		9.6	"	"	"
Pendimethalin (40487-42-1)	U		481	"	"	"
Trifluralin (1582-09-8)	U		48.1	"	"	"



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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508014-01

Station ID: Ouachita Dn 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.6	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		57.7	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508014-01

Station ID: Ouachita Dn 01

Batch: B5H1120

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1033ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	499		103	63-136	08/11/05	08/23/05
<i>Surr: Tributyl phosphate</i>	400		82.6	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.4	1	08/11/05	08/23/05
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		19.4	"	"	"
Molinate (2212-67-1)	U		96.8	"	"	"
Carbofuran (1563-66-2)	U		29.0	"	"	08/23/05



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 33.34g

Sample Qualifiers:

%Solids: 78.54

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	160		55.9	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	191		66.8	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	177		61.9	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	36.7		19.2 #	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	96.2		50.4	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	115		60.2	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	263		92.0	29-125	"	"
<i>Surr: Terphenyl-d14</i>	191		100	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		38.2	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		38.2	"	"	"
Acetophenone (98-86-2)	U		153	"	"	"
Anthracene (120-12-7)	U		38.2	"	"	"
Atrazine (1912-24-9)	U		153	"	"	"
Benzaldehyde (100-52-7)	U		153	"	"	"
Benzoic acid (65-85-0)	201	J, R6B	153	"	"	"
Benzo (a) anthracene (56-55-3)	U		38.2	"	"	"
Benzo (a) pyrene (50-32-8)	U		38.2	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		38.2	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		38.2	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		38.2	"	"	"
Benzyl alcohol (100-51-6)	U		76.4	"	"	"
1,1'-Biphenyl (92-52-4)	U		153	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		153	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		153	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		153	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		76.4	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		153	"	"	"
Butyl benzyl phthalate (85-68-7)	U		76.4	"	"	"
Carbazole (86-74-8)	U		153	"	"	"
Caprolactam (105-60-2)	U		153	"	"	"
4-Chloroaniline (106-47-8)	U		153	"	"	"
2-Chloronaphthalene (91-58-7)	U		153	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H2203
 Sample Type: Solid

Date Collected: 08/10/05
 Sample Wet Weight: 33.34g
 %Solids: 78.54

Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		153	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		153	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		153	"	"	"
Chrysene (218-01-9)	U		38.2	"	"	"
Dibenzofuran (132-64-9)	U		153	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		38.2	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		38.2	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		38.2	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		38.2	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		153	"	"	"
2,4-Dichlorophenol (120-83-2)	U		153	"	"	"
Diethyl phthalate (84-66-2)	U		76.4	"	"	"
2,4-Dimethylphenol (105-67-9)	U		38.2	"	"	"
Dimethyl phthalate (131-11-3)	U		76.4	"	"	"
2,4-Dinitrophenol (51-28-5)	U		764	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		153	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		153	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		764	"	"	"
Di-n-butyl phthalate (84-74-2)	U		76.4	"	"	"
Di-n-octyl phthalate (117-84-0)	U		76.4	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		15.3	"	"	"
Fluoranthene (206-44-0)	U		38.2	"	"	"
Fluorene (86-73-7)	U		38.2	"	"	"
Hexachlorobenzene (118-74-1)	U		15.3	"	"	"
Hexachlorobutadiene (87-68-3)	U		38.2	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		153	"	"	"
Hexachloroethane (67-72-1)	U		153	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		38.2	"	"	"
Isophorone (78-59-1)	U		15.3	"	"	"
2-Methylnaphthalene (91-57-6)	U		38.2	"	"	"
2-Methylphenol (95-48-7)	U		76.4	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		153	"	"	"
Naphthalene (91-20-3)	U		38.2	"	"	"
2-Nitroaniline (88-74-4)	U		305	"	"	"
3-Nitroaniline (99-09-2)	U		305	"	"	"
4-Nitroaniline (100-01-6)	U		305	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 33.34g

Sample Qualifiers:

%Solids: 78.54

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		153	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		153	"	"	"
4-Nitrophenol (100-02-7)	U		458	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		38.2	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		153	"	"	"
Pentachlorophenol (87-86-5)	U		153	"	"	"
Phenanthrene (85-01-8)	U		38.2	"	"	"
Phenol (108-95-2)	U		153	"	"	"
Pyrene (129-00-0)	U		38.2	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		15.3	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		153	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		153	"	"	"



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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 33.34g

Sample Qualifiers:

%Solids: 78.54

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecanoic acid (57-10-3)	160		12.38	2	"	09/01/05
Simonellite Isomer (NA)	130		13.32	"	"	"
1-Docosene (1599-67-3)	150		15.03	"	"	"
Nonacosane (630-03-5)	210		15.78	"	"	"
Hentriacontane (630-04-6)	140		16.76	"	"	"
Unknown@17.13 (NA)	110		17.13	"	"	"
Unknown@17.19 (NA)	120		17.19	"	"	"
Cholest-5-en-3-ol (3.beta.)- (57-88-5)	160		17.36	"	"	"
Stigmasterol (83-48-7)	140		18.37	"	"	"
Sitosterol Isomer (NA)	270		18.86	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 33.34g

Sample Qualifiers:

%Solids: 78.54

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	127		66.5	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		7.6	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		7.6	"	"	"
Trichlorobiphenyls (NA)	U		7.6	"	"	"
Tetrachlorobiphenyls (NA)	U		15.3	"	"	"
Pentachlorobiphenyls (NA)	U		15.3	"	"	"
Hexachlorobiphenyls (NA)	U		15.3	"	"	"
Heptachlorobiphenyls (NA)	U		22.9	"	"	"
Octachlorobiphenyls (NA)	U		22.9	"	"	"
Nonachlorobiphenyls (NA)	U		30.5	"	"	"
Decachlorobiphenyls (NA)	U		38.2	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 78.54

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	6.54		66.2	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	9.15		92.6	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		4.0	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		7.9	"	"	"
Aroclor-1232 (11141-16-5)	U		4.0	"	"	"
Aroclor-1242 (53469-21-9)	U		4.0	"	"	"
Aroclor-1248 (12672-29-6)	U		4.0	"	"	"
Aroclor-1254 (11097-69-1)	U		4.0	"	"	"
Aroclor-1260 (11096-82-5)	U		4.0	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 78.54

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	4.06		41.1	11-113	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	6.12		61.9	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U	RL	1.6	1	08/19/05	09/08/05
alpha-BHC (319-84-6)	U		0.4	"	"	"
beta-BHC (319-85-7)	U		0.4	"	"	"
delta-BHC (319-86-8)	U		0.4	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.4	"	"	"
Cyfluthrin (68359-37-5)	U		0.4	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.4	"	"	"
4,4'-DDD (72-54-8)	U		0.4	"	"	"
4,4'-DDE (72-55-9)	U		0.4	"	"	"
4,4'-DDT (50-29-3)	U		0.4	"	"	"
Dieldrin (60-57-1)	U		0.4	"	"	"
Endosulfan I (959-98-8)	U		0.4	"	"	"
Endosulfan II (33213-65-9)	U		0.4	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.4	"	"	"
Endrin (72-20-8)	U		0.4	"	"	"
Endrin aldehyde (7421-93-4)	U		0.4	"	"	"
Endrin ketone (53494-70-5)	U		0.4	"	"	"
Esfenvalerate (66230-04-4)	U		0.4	"	"	"
Heptachlor (76-44-8)	U		0.4	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.4	"	"	"
Methoxychlor (72-43-5)	U	RL	7.9	"	"	"
Pendimethalin (40487-42-1)	U		98.4	"	"	"
Trifluralin (1582-09-8)	U		9.8	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 78.54

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.0	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		11.9	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 32.21g

Sample Qualifiers:

%Solids: 78.54

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	36.5		92.4	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	36.8		93.2	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		4.0	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		2.0	"	"	"
Methyl parathion (298-00-0)	U		4.0	"	"	"
Molinate (2212-67-1)	U		19.8	"	"	"
Carbofuran (1563-66-2)	U		5.9	"	"	"



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Region 6 Laboratory

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

Metals by EPA Method 6010B - ICP

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H3007

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.2716g

Sample Qualifiers:

%Solids: 78.54

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	583		2.8	1	08/30/05	09/02/05
Antimony (7440-36-0)	U	L	1.7	"	"	"
Arsenic (7440-38-2)	U		2.8	"	"	"
Barium (7440-39-3)	12.4	L	0.3	"	"	"
Beryllium (7440-41-7)	0.1		0.1	"	"	"
Cadmium (7440-43-9)	0.2		0.1	"	"	"
Calcium (7440-70-2)	187		4.2	"	"	"
Chromium (7440-47-3)	1.0		0.3	"	"	"
Cobalt (7440-48-4)	1.3		0.6	"	"	"
Copper (7440-50-8)	1.0		0.6	"	"	"
Iron (7439-89-6)	1,970		0.7	"	"	"
Lead (7439-92-1)	7.1		0.8	"	"	"
Magnesium (7439-95-4)	67.8		4.2	"	"	"
Manganese (7439-96-5)	51.3		0.1	"	"	"
Nickel (7440-02-2)	0.6		0.6	"	"	"
Potassium (7440-09-7)	44.9		28.0	"	"	"
Selenium (7782-49-2)	U		2.8	"	"	"
Silver (7440-22-4)	U		0.3	"	"	"
Thallium (7440-28-0)	U		2.8	"	"	"
Sodium (7440-23-5)	20.7		14.0	"	"	"
Vanadium (7440-62-2)	4.7		0.8	"	"	"
Zinc (7440-66-6)	6.1		0.6	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5I2103

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.2716g

Sample Qualifiers:

%Solids: 78.54

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.006	L	0.004	1	08/30/05	08/31/05



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

Metals by EPA Method 6020 - ICP MS

Lab ID: 0508014-02

Station ID: Ouachita Dn 02

Batch: B5H3008

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.2716g

Sample Qualifiers:

%Solids: 78.54

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		0.0003	1	08/30/05	11/29/05
Arsenic (7440-38-2)	0.5		0.1	10	"	10/28/05
Barium (7440-39-3)	U		0.0003	1	"	11/29/05
Beryllium (7440-41-7)	U		0.0003	"	"	"
Cadmium (7440-43-9)	U		0.0003	"	"	"
Chromium (7440-47-3)	U		0.0003	"	"	"
Cobalt (7440-48-4)	U		0.0003	"	"	"
Copper (7440-50-8)	U		0.0003	"	"	"
Lead (7439-92-1)	7.1		0.1	10	"	10/28/05
Manganese (7439-96-5)	U		0.0003	1	"	11/29/05
Molybdenum (7439-98-7)	U		0.0003	"	"	"
Nickel (7440-02-2)	U		0.0003	"	"	"
Selenium (7782-49-2)	0.8		0.1	10	"	10/28/05
Silver (7440-22-4)	U		0.0003	1	"	11/29/05
Thallium (7440-28-0)	U		0.1	10	"	10/28/05
Vanadium (7440-62-2)	U		0.0003	1	"	11/29/05
Zinc (7440-66-6)	U		0.0003	"	"	"



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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508014-03

Station ID: Ouachita Up 01

Batch: B5H2303

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1038ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.33		69.1	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Region 6 Laboratory

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

Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508014-03

Station ID: Ouachita Up 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1041ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	38.6		80.4	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	58.7		122	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.2	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.4	"	"	"
Aroclor-1232 (11141-16-5)	U		19.2	"	"	"
Aroclor-1242 (53469-21-9)	U		19.2	"	"	"
Aroclor-1248 (12672-29-6)	U		19.2	"	"	"
Aroclor-1254 (11097-69-1)	U		19.2	"	"	"
Aroclor-1260 (11096-82-5)	U		19.2	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508014-03

Station ID: Ouachita Up 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1041ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	22.6		47.1	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	38.6		80.4	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.6	"	"	"
beta-BHC (319-85-7)	U		9.6	"	"	"
delta-BHC (319-86-8)	U		9.6	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.6	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.6	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.6	"	"	"
Endosulfan I (959-98-8)	U		9.6	"	"	"
Endosulfan II (33213-65-9)	U		9.6	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.6	"	"	"
Endrin (72-20-8)	U		9.6	"	"	"
Endrin aldehyde (7421-93-4)	U		9.6	"	"	"
Endrin ketone (53494-70-5)	U		9.6	"	"	"
Esfenvalerate (66230-04-4)	U		9.6	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.6	"	"	"
Methoxychlor (72-43-5)	U		9.6	"	"	"
Pendimethalin (40487-42-1)	U		480	"	"	"
Trifluralin (1582-09-8)	U		48.0	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508014-03

Station ID: Ouachita Up 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1041ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.6	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		57.6	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508014-03

Station ID: Ouachita Up 01

Batch: B5H1120

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1039ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	423		87.9	63-136	08/11/05	08/23/05
<i>Surr: Tributyl phosphate</i>	377		78.4	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.2	1	08/11/05	08/23/05
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		19.2	"	"	"
Molinate (2212-67-1)	U		96.2	"	"	"
Carbofuran (1563-66-2)	U		28.9	"	"	08/23/05



**Environmental Protection Agency
Region 6 Laboratory**

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Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 31.81g

Sample Qualifiers:

%Solids: 76.98

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	162		52.9	26-104	08/22/05	09/01/05
<i>Surr: Phenol-d5</i>	183		59.8	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	176		57.5	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	53.9		26.4	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	101		49.5	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	123		60.3	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	245		80.1	29-125	"	"
<i>Surr: Terphenyl-d14</i>	207		101	41-141	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		40.8	2	08/22/05	09/01/05
Acenaphthylene (208-96-8)	U		40.8	"	"	"
Acetophenone (98-86-2)	U		163	"	"	"
Anthracene (120-12-7)	U		40.8	"	"	"
Atrazine (1912-24-9)	U		163	"	"	"
Benzaldehyde (100-52-7)	U		163	"	"	"
Benzoic acid (65-85-0)	184	J, R6B	163	"	"	"
Benzo (a) anthracene (56-55-3)	U		40.8	"	"	"
Benzo (a) pyrene (50-32-8)	U		40.8	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		40.8	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		40.8	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		40.8	"	"	"
Benzyl alcohol (100-51-6)	U		81.7	"	"	"
1,1'-Biphenyl (92-52-4)	U		163	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		163	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		163	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		163	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		81.7	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		163	"	"	"
Butyl benzyl phthalate (85-68-7)	U		81.7	"	"	"
Carbazole (86-74-8)	U		163	"	"	"
Caprolactam (105-60-2)	U		163	"	"	"
4-Chloroaniline (106-47-8)	U		163	"	"	"
2-Chloronaphthalene (91-58-7)	U		163	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 31.81g

Sample Qualifiers:

%Solids: 76.98

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		163	2	08/22/05	09/01/05
4-Chlorophenyl phenyl ether (7005-72-3)	U		163	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		163	"	"	"
Chrysene (218-01-9)	U		40.8	"	"	"
Dibenzofuran (132-64-9)	U		163	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		40.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		40.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		40.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		40.8	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		163	"	"	"
2,4-Dichlorophenol (120-83-2)	U		163	"	"	"
Diethyl phthalate (84-66-2)	U		81.7	"	"	"
2,4-Dimethylphenol (105-67-9)	U		40.8	"	"	"
Dimethyl phthalate (131-11-3)	U		81.7	"	"	"
2,4-Dinitrophenol (51-28-5)	U		817	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		163	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		163	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		817	"	"	"
Di-n-butyl phthalate (84-74-2)	300		81.7	"	"	"
Di-n-octyl phthalate (117-84-0)	U		81.7	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		16.3	"	"	"
Fluoranthene (206-44-0)	U		40.8	"	"	"
Fluorene (86-73-7)	U		40.8	"	"	"
Hexachlorobenzene (118-74-1)	U		16.3	"	"	"
Hexachlorobutadiene (87-68-3)	U		40.8	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		163	"	"	"
Hexachloroethane (67-72-1)	U		163	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		40.8	"	"	"
Isophorone (78-59-1)	U		16.3	"	"	"
2-Methylnaphthalene (91-57-6)	U		40.8	"	"	"
2-Methylphenol (95-48-7)	U		81.7	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		163	"	"	"
Naphthalene (91-20-3)	U		40.8	"	"	"
2-Nitroaniline (88-74-4)	U		327	"	"	"
3-Nitroaniline (99-09-2)	U		327	"	"	"
4-Nitroaniline (100-01-6)	U		327	"	"	"



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

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 31.81g

Sample Qualifiers:

%Solids: 76.98

Targets (Continued)

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		163	2	08/22/05	09/01/05
2-Nitrophenol (88-75-5)	U		163	"	"	"
4-Nitrophenol (100-02-7)	U		490	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		40.8	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		163	"	"	"
Pentachlorophenol (87-86-5)	U		163	"	"	"
Phenanthrene (85-01-8)	U		40.8	"	"	"
Phenol (108-95-2)	U		163	"	"	"
Pyrene (129-00-0)	U		40.8	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		16.3	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		163	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		163	"	"	"



Environmental Protection Agency
Region 6 Laboratory

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

Semivolatiles by EPA Method 8270 - GC/MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 31.81g

Sample Qualifiers:

%Solids: 76.98

Tentatively Identified Compounds

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Simonellite Isomer (NA)	250		13.32	2	"	09/01/05
Unknown paraffin (NA)	250		14.39	"	"	"
1-Docosene (1599-67-3)	250		15.03	"	"	"
Unknown@15.15 (NA)	490		15.15	"	"	"
Nonacosane (630-03-5)	440		15.78	"	"	"
Sitosterol Isomer (NA)	1,000		18.87	"	"	"
C29H52O isomer (NA)	500		18.97	"	"	"
C30H48O isomer (NA)	350		19.55	"	"	"
C30H50O isomer (NA)	590		19.79	"	"	"
Friedelin (559-74-0)	270		21.37	"	"	"

The compounds listed are *tentatively* identified by the best match with the NIST or Wiley mass spectral data base or by manual interpretation. The concentrations are estimated based on a Response Factor of 1.0 to the nearest internal standard. A minimum of the top 10 most significant peaks that are at least 10% in area of the nearest internal standard are reported, excluding those found in the laboratory blank.



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Region 6 Laboratory

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

Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H2203

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 31.81g

Sample Qualifiers:

%Solids: 76.98

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	130		63.7	34-116	08/22/05	09/07/05

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		8.2	2	08/22/05	09/07/05
Dichlorobiphenyls (NA)	U		8.2	"	"	"
Trichlorobiphenyls (NA)	U		8.2	"	"	"
Tetrachlorobiphenyls (NA)	U		16.3	"	"	"
Pentachlorobiphenyls (NA)	U		16.3	"	"	"
Hexachlorobiphenyls (NA)	U		16.3	"	"	"
Heptachlorobiphenyls (NA)	U		24.5	"	"	"
Octachlorobiphenyls (NA)	U		24.5	"	"	"
Nonachlorobiphenyls (NA)	U		32.6	"	"	"
Decachlorobiphenyls (NA)	U		40.8	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 30.59g

Sample Qualifiers:

%Solids: 76.98

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	7.61		71.8	42-119	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	10.1		95.3	43-118	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		4.2	1	08/19/05	09/08/05
Aroclor-1221 (11104-28-2)	U		8.5	"	"	"
Aroclor-1232 (11141-16-5)	U		4.2	"	"	"
Aroclor-1242 (53469-21-9)	U		4.2	"	"	"
Aroclor-1248 (12672-29-6)	U		4.2	"	"	"
Aroclor-1254 (11097-69-1)	U		4.2	"	"	"
Aroclor-1260 (11096-82-5)	U		4.2	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 30.59g

Sample Qualifiers:

%Solids: 76.98

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	5.06		47.7	11-113	08/19/05	09/08/05
<i>Surr: Decachlorobiphenyl</i>	7.62		71.9	35-138	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U	RL	0.8	1	08/19/05	09/08/05
alpha-BHC (319-84-6)	U		0.4	"	"	"
beta-BHC (319-85-7)	U		0.4	"	"	"
delta-BHC (319-86-8)	U		0.4	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.4	"	"	"
Cyfluthrin (68359-37-5)	U		0.4	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.4	"	"	"
4,4'-DDD (72-54-8)	U		0.4	"	"	"
4,4'-DDE (72-55-9)	U		0.4	"	"	"
4,4'-DDT (50-29-3)	U		0.4	"	"	"
Dieldrin (60-57-1)	U		0.4	"	"	"
Endosulfan I (959-98-8)	U		0.4	"	"	"
Endosulfan II (33213-65-9)	U		0.4	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.4	"	"	"
Endrin (72-20-8)	U		0.4	"	"	"
Endrin aldehyde (7421-93-4)	U		0.4	"	"	"
Endrin ketone (53494-70-5)	U		0.4	"	"	"
Esfenvalerate (66230-04-4)	U		0.4	"	"	"
Heptachlor (76-44-8)	U		0.4	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.4	"	"	"
Methoxychlor (72-43-5)	U	RL	8.5	"	"	"
Pendimethalin (40487-42-1)	U		106	"	"	"
Trifluralin (1582-09-8)	U		10.6	"	"	"



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Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 30.59g

Sample Qualifiers:

%Solids: 76.98

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.1	1	08/19/05	09/08/05
Toxaphene (8001-35-2)	U		12.7	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H1905

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 30.59g

Sample Qualifiers:

%Solids: 76.98

Surrogates

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	44.6		105	70-130	08/19/05	09/01/05
<i>Surr: Tributyl phosphate</i>	41.8		98.4	70-130	"	"

Targets

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		4.2	1	08/19/05	09/01/05
Diazinon (333-41-5)	U		2.1	"	"	"
Methyl parathion (298-00-0)	U		4.2	"	"	"
Molinate (2212-67-1)	U		21.2	"	"	"
Carbofuran (1563-66-2)	U		6.4	"	"	"



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

Metals by EPA Method 6010B - ICP

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H3007

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.8g

Sample Qualifiers:

%Solids: 76.98

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	480		2.3	1	08/30/05	09/02/05
Antimony (7440-36-0)	U	L	1.4	"	"	09/02/05
Arsenic (7440-38-2)	U		2.3	"	"	"
Barium (7440-39-3)	12.1	L	0.2	"	"	"
Beryllium (7440-41-7)	0.1		0.1	"	"	09/02/05
Cadmium (7440-43-9)	0.2		0.1	"	"	09/02/05
Calcium (7440-70-2)	150		3.5	"	"	09/02/05
Chromium (7440-47-3)	0.9		0.2	"	"	09/02/05
Cobalt (7440-48-4)	1.2		0.5	"	"	"
Copper (7440-50-8)	0.8		0.5	"	"	"
Iron (7439-89-6)	1,770		0.6	"	"	09/02/05
Lead (7439-92-1)	2.5		0.7	"	"	09/02/05
Magnesium (7439-95-4)	51.2		3.5	"	"	"
Manganese (7439-96-5)	43.3		0.1	"	"	09/02/05
Nickel (7440-02-2)	0.6		0.5	"	"	09/02/05
Potassium (7440-09-7)	37.5		23.2	"	"	09/02/05
Selenium (7782-49-2)	U		2.3	"	"	09/02/05
Silver (7440-22-4)	U		0.2	"	"	09/02/05
Thallium (7440-28-0)	U		2.3	"	"	09/02/05
Sodium (7440-23-5)	12.0		11.6	"	"	09/02/05
Vanadium (7440-62-2)	5.0		0.7	"	"	09/02/05
Zinc (7440-66-6)	5.2		0.5	"	"	"

Metals by EPA Method 7470A/7471A - CVAAS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5I2103

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.8g

Sample Qualifiers:

%Solids: 76.98

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	0.005	L	0.004	1	08/30/05	08/31/05



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Metals by EPA Method 6020 - ICP MS

Lab ID: 0508014-04

Station ID: Ouachita Up 02

Batch: B5H3008

Date Collected: 08/10/05

Sample Type: Solid

Sample Wet Weight: 2.8g

Sample Qualifiers:

%Solids: 76.98

Targets

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		0.0002	1	08/30/05	11/29/05
Arsenic (7440-38-2)	0.5		0.1	10	"	10/28/05
Barium (7440-39-3)	U		0.0002	1	"	11/29/05
Beryllium (7440-41-7)	U		0.0002	"	"	"
Cadmium (7440-43-9)	U		0.0002	"	"	"
Chromium (7440-47-3)	U		0.0002	"	"	"
Cobalt (7440-48-4)	U		0.0002	"	"	"
Copper (7440-50-8)	U		0.0002	"	"	"
Lead (7439-92-1)	2.1		0.1	10	"	10/28/05
Manganese (7439-96-5)	U		0.0002	1	"	11/29/05
Molybdenum (7439-98-7)	U		0.0002	"	"	"
Nickel (7440-02-2)	U		0.0002	"	"	"
Selenium (7782-49-2)	1.0		0.1	10	"	10/28/05
Silver (7440-22-4)	U		0.0002	1	"	11/29/05
Thallium (7440-28-0)	U		0.1	10	"	10/28/05
Vanadium (7440-62-2)	U		0.0002	1	"	11/29/05
Zinc (7440-66-6)	U		0.0002	"	"	"



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Homolog PCBs by EPA Method 680 - GC/MS

Lab ID: 0508014-05

Station ID: Field Blank 01

Batch: B5H2303

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1020ml

Sample Qualifiers: R6HTS

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.26		66.5	39-117	08/23/05	09/01/05

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	08/23/05	09/01/05
Dichlorobiphenyls (NA)	U		0.1	"	"	"
Trichlorobiphenyls (NA)	U		0.1	"	"	"
Tetrachlorobiphenyls (NA)	U		0.2	"	"	"
Pentachlorobiphenyls (NA)	U		0.2	"	"	"
Hexachlorobiphenyls (NA)	U		0.2	"	"	"
Heptachlorobiphenyls (NA)	U		0.3	"	"	"
Octachlorobiphenyls (NA)	U		0.3	"	"	"
Nonachlorobiphenyls (NA)	U		0.4	"	"	"
Decachlorobiphenyls (NA)	U		0.5	"	"	"
Total PCBs (NA)	U			"	"	"



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Aroclors by EPA Method 8082 - GC/ECD

Lab ID: 0508014-05

Station ID: Field Blank 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1032ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	38.3		79.1	34-102	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	64.6		133	30-152	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.4	1	08/15/05	08/29/05
Aroclor-1221 (11104-28-2)	U		38.8	"	"	"
Aroclor-1232 (11141-16-5)	U		19.4	"	"	"
Aroclor-1242 (53469-21-9)	U		19.4	"	"	"
Aroclor-1248 (12672-29-6)	U		19.4	"	"	"
Aroclor-1254 (11097-69-1)	U		19.4	"	"	"
Aroclor-1260 (11096-82-5)	U		19.4	"	"	"



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD

Lab ID: 0508014-05

Station ID: Field Blank 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1032ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	20.5		42.4	28-71	08/15/05	08/29/05
<i>Surr: Decachlorobiphenyl</i>	42.3		87.4	41-115	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.7	1	08/15/05	08/29/05
alpha-BHC (319-84-6)	U		9.7	"	"	"
beta-BHC (319-85-7)	U		9.7	"	"	"
delta-BHC (319-86-8)	U		9.7	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.7	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.8	"	"	"
4,4'-DDE (72-55-9)	U		9.7	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.7	"	"	"
Endosulfan I (959-98-8)	U		9.7	"	"	"
Endosulfan II (33213-65-9)	U		9.7	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.7	"	"	"
Endrin (72-20-8)	U		9.7	"	"	"
Endrin aldehyde (7421-93-4)	U		9.7	"	"	"
Endrin ketone (53494-70-5)	U		9.7	"	"	"
Esfenvalerate (66230-04-4)	U		9.7	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.7	"	"	"
Methoxychlor (72-43-5)	U		9.7	"	"	"
Pendimethalin (40487-42-1)	U		484	"	"	"
Trifluralin (1582-09-8)	U		48.4	"	"	"



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Toxaphene and Tech. Chlordane by 8081A - GC/ECD

Lab ID: 0508014-05

Station ID: Field Blank 01

Batch: B5H1501

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1032ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.7	1	08/15/05	08/29/05
Toxaphene (8001-35-2)	U		58.1	"	"	"



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD

Lab ID: 0508014-05

Station ID: Field Blank 01

Batch: B5H1120

Date Collected: 08/10/05

Sample Type: Liquid

Sample Volume: 1034ml

Sample Qualifiers:

Surrogates

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	433		89.5	63-136	08/11/05	08/23/05
<i>Surr: Tributyl phosphate</i>	395		81.6	53-104	"	"

Targets

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		19.3	1	08/11/05	08/23/05
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		19.3	"	"	"
Molinate (2212-67-1)	U		96.7	"	"	"
Carbofuran (1563-66-2)	U		29.0	"	"	08/23/05



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Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Chemistry Data Recorded for the Liquid Samples

Sample Type: Liquid

Batch: B5H1006

Sample Number	Station ID	pH	Hardness (mg/L)	Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Ammonia (mg/L)	Total Chlorine (mg/L)	Salinity (mg/L)
0508013-01	Field Duplicate 01	7.4	100	110	245	0.8	0.3	0
0508013-03	Coffee Dn 01	7.5	260	390	2200	6.0	1.1	0
0508013-05	Mossy 01	7.6	300	380	1950	5.4	1.2	0
0508013-07	Coffee Up 01	7.5	104	110	247	0.8	0.3	0
0508014-01	Ouachita Dn 01	6.6	32	28	130	0.6	0.3	0
0508014-03	Ouachita Up 01	6.4	28	20	89	0.4	0.3	0
0508014-05	Field Blank 01	5.3	0	4	7	0.2	0.2	0

Chemistry Data Recorded for the Control Samples

Sample Number	Station ID	pH	Hardness (mg/L)	Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Ammonia (mg/L)	Total Chlorine (mg/L)	Salinity (mg/L)
B5H1006-BLK1	Control - 8/8/05	8.3	82	66	288	<0.1	<0.1	0



Environmental Protection Agency
Region 6 Laboratory

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

Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Test Organism: *Ceriodaphnia dubia*
Type of Test: 7-Day Survival and Reproduction
Method: EPA-821-R-02-013 (Oct 2002)

Percentage mortality and mean number of young per female produced after 7 days of exposure. Ten organisms were exposed to each sample and the control.

Sample Type: Liquid

Batch: B5H1002

Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	Fishers Exact Test		Dunnett Test	
						b Value	Critical Fishers Value	Dunnett Table Value	T Stat
0508013-01	Field Duplicate 01	100	25	0.0	10.8*	NA	NA	1.730	5.623
0508013-03	Coffee Dn 01	100	25	0.0	15.2	NA	NA	1.730	1.122
0508013-05	Mossy 01	100	25	20.0	13.6	8	6	1.730	1.501
0508013-07	Coffee Up 01	100	25	0.0	15.3	NA	NA	1.730	1.386

Batch: B5H1102

Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	Fishers Exact Test		Dunnett Test	
						b Value	Critical Fishers Value	Dunnett Table Value	T Stat
0508014-01	Ouachita Dn 01	100	25	0.0	15.3	NA	NA	1.730	0.918
0508014-03	Ouachita Up 01	100	25	0.0	16.2	NA	NA	1.730	0.266
0508014-05	Field Blank 01	100	25	20.0	4.8 *	8	6	1.730	11.67

Quality Control

Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	Fishers Exact Test		Dunnett Test	
						b Value	Critical Fishers Value	Dunnett Table Value	T Stat
B5H1002-BLK1	Control-8/8/05	100	25	0.0	17.4	NA	NA	NA	NA
B5H1102-BLK1	Control-8/8/05	100	25	0.0	16.6	NA	NA	NA	NA



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Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Test Organism: *Pimephales promelas*

Type of Test: 7-Day Embryo/Larval

Method: EPA-821-R-02-013 (Oct 2002)

Percentage of fathead minnow embryo/larvae affected after 7 days of exposure. Thirty embryos were exposed to each sample and the control.

Sample Type: Liquid

Batch: B5H1003

Equal Variance t-Test

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) ^a
0508013-01	Field Duplicate 01	100	25	23.0 *
0508013-03	Coffee Dn 01	80	25	20.0
0508013-05	Mossy 01	98	25	10.0
0508013-07	Coffee Up 01	89	25	17.0 *

t-Test	Sample t-Table Value
7.000	2.130
2.000	2.130
1.732	2.130
5.000	2.130

Batch: B5H1103

Equal Variance t-Test

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) ^a
0508014-01	Ouachita Dn 01	96	25	23.0 *
0508014-03	Ouachita Up 01	95	25	7.0
0508014-05	Field Blank 01	93	25	23.0 *

t-Test	Sample t-Table Value
7.000	2.130
2.000	2.130
2.646	2.130

Quality Control

Equal Variance t-Test

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) ^a
B5H1003-BLK1	Control-8/8/05	95	25	0.0
B5H1103-BLK1	Control-8/8/05	95	25	0.0

t-Test	Sample t-Table Value
NA	NA
NA	NA

^a Effects include the combined number of dead embryos (unhatched) and larvae, and organisms exhibiting terata and abnormal swimming behavior.



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Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Chemistry Data Recorded for the Solid Samples

Sample Type: Solid

Batch:B5H1007

Sample Number	Station ID	pH	Hardness (mg/L)	Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Ammonia (mg/L)	Total Chlorine (mg/L)	Salinity (mg/L)
0508013-02	Field Duplicate 02	8.0	260	150	740	2.5	0.7	0
0508013-04	Coffee Dn 02	8.2	360	390	970	21	3.9	0
0508013-06	Mossy 02	8.2	200	220	995	19	4.0	0
0508013-08	Coffee Up 02	8.0	250	150	780	2.7	1.4	0
0508014-02	Ouachita Dn 02	6.9	140	56	560	4.0	0.6	0
0508014-04	Ouachita Up 02	7.6	120	33	545	2.4	0.4	0

Chemistry Data Recorded for the Control Samples

Sample Number	Station ID	pH	Hardness (mg/L)	Alkalinity (mg/L)	Conductivity (µmhos/cm)	Total Ammonia (mg/L)	Total Chlorine (mg/L)	Salinity (mg/L)
B5H1007-BLK1	Control - 8/13/05	8.2	88	64	289	<0.1	<0.1	0



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Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Test Organism: *Ceriodaphnia dubia*
Type of Test: 7-Day Survival and Reproduction
Method: EPA-821-R-02-013 (Oct 2002)

Percentage mortality and mean number of young per female produced after 7 days of exposure. Ten organisms were exposed to each sample and the control.

Sample Type: Solid

Batch: B5H1004						Fishers Exact Test			
Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	b Value	Critical Fishers Value	Dunnett Table Value	T Stat
0508013-02	Field Duplicate 02	100	25	40.0	6.1 *	6	4	1.730	6.367
0508013-04	Coffee Dn 02	100	25	0.0	6.7 *	NA	NA	1.730	6.686
0508013-06	Mossy 02	100	25	0.0	14.6	NA	NA	1.730	1.028
0508013-08	Coffee Up 02	100	25	0.0	13.6	NA	NA	1.730	1.573
0508014-02	Ouachita Dn 02	100	25	0.0	12.2*	NA	NA	1.730	2.551
0508014-04	Ouachita Up 02	100	25	0.0	9.8 *	NA	NA	1.730	4.120

Quality Control						Fishers Exact Test		Dunnett Test	
Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	b Value	Critical Fishers Value	Dunnett Table Value	T Stat
B5H1004-BLK1	Control-8/13/05	100	25	10.0	16.2	NA	NA	NA	NA



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Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms

Test Organism: *Pimephales promelas*

Type of Test: 7-Day Embryo/Larval

Method: EPA-821-R-02-013 (Oct 2002)

Percentage of fathead minnow embryo/larvae affected after 7 days of exposure. Thirty embryos were exposed to each sample and the control.

Sample Type: Solid

Batch: B5H1005

Equal Variance t-Test

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) ^a
0508013-02	Field Duplicate 02	100	25	10.0
0508013-04	Coffee Dn 02	83	25	13.0
0508013-06	Mossy 02	87	25	60.0
0508013-08	Coffee Up 02	100	25	30.0
0508014-02	Ouachita Dn 02	100	25	17.0
0508014-04	Ouachita Up 02	96	25	23.0

t-Test	Sample t-Table Value
-0.378	2.130
-0.196	2.130
1.917	2.130
0.658	2.130
0.000	2.130
0.392	2.130

Quality Control

Batch: B5H1103

Equal Variance t-Test

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) ^a
B5H1005-BLK1	Control-8/13/05	99	25	17.0

t-Test	Sample t-Table Value
NA	NA

^a Effects include the combined number of dead embryos (unhatched) and larvae, and organisms exhibiting terata and abnormal swimming behavior.



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

Batch: B5H1501

Sample Type: Liquid

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	36.3		50.0	72.6	34-102
<i>Surr: Decachlorobiphenyl</i>	64.8		50.0	130	30-152

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	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



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

Batch: B5H1905

Sample Type: Solid

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	5.56		8.32	66.8	42-119
<i>Surr: Decachlorobiphenyl</i>	8.14		8.32	97.8	43-118

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Aroclor-1016	U		3.3
Aroclor-1221	U		6.7
Aroclor-1232	U		3.3
Aroclor-1242	U		3.3
Aroclor-1248	U		3.3
Aroclor-1254	U		3.3
Aroclor-1260	U		3.3



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: 2-Fluorobiphenyl</i>	97.2		164	59.3	34-116

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Monochlorobiphenyls	U		6.6
Dichlorobiphenyls	U		6.6
Trichlorobiphenyls	U		6.6
Tetrachlorobiphenyls	U		13.1
Pentachlorobiphenyls	U		13.1
Hexachlorobiphenyls	U		13.1
Heptachlorobiphenyls	U		19.7
Octachlorobiphenyls	U		19.7
Nonachlorobiphenyls	U		26.2
Decachlorobiphenyls	U		32.8
Total PCBs	0.0		

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: 2-Fluorobiphenyl</i>	149		167	89.2	34-116



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Monochlorobiphenyls	U		6.7
Dichlorobiphenyls	U		6.7
Trichlorobiphenyls	U		6.7
Tetrachlorobiphenyls	U		13.3
Pentachlorobiphenyls	U		13.3
Hexachlorobiphenyls	U		13.3
Heptachlorobiphenyls	U		20.0
Octachlorobiphenyls	U		20.0
Nonachlorobiphenyls	U		26.6
Decachlorobiphenyls	U		33.3
Total PCBs	0.0		



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

LCS (B5H2203-BS1)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: 2-Fluorobiphenyl</i>	112		163	68.7	34-116

LCS (B5H2203-BS1)

Prepared: 8/22/2005 Analyzed: 9/7/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limit Limits
Total PCBs	641			979	65.5#	70-130

Matrix Spike (B5H2203-MS1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/7/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: 2-Fluorobiphenyl</i>	171		214	79.9	34-116

Matrix Spike (B5H2203-MS1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/7/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limit Limits
Total PCBs	904			1,290		70.1	50-150



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Matrix Spike Dup (B5H2203-MSD1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/7/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	181		212	85.4	34-116

Matrix Spike Dup (B5H2203-MSD1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/7/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Total PCBs	932			1,270		73.4	50-150	3.05	25



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2303

Sample Type: Liquid

Blank (B5H2303-BLK1)

Prepared: 8/23/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	4.01		5.00	80.2	39-117

Blank (B5H2303-BLK1)

Prepared: 8/23/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Monochlorobiphenyls	U		0.1
Dichlorobiphenyls	U		0.1
Trichlorobiphenyls	U		0.1
Tetrachlorobiphenyls	U		0.2
Pentachlorobiphenyls	U		0.2
Hexachlorobiphenyls	U		0.2
Heptachlorobiphenyls	U		0.3
Octachlorobiphenyls	U		0.3
Nonachlorobiphenyls	U		0.4
Decachlorobiphenyls	U		0.5
Total PCBs	0.0		



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2303

Sample Type: Liquid

LCS (B5H2303-BS1)

Prepared: 8/23/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.85		5.00	77.0	39-117

LCS (B5H2303-BS1)

Prepared: 8/23/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limits
Total PCBs	21.8			30.0	72.7	70-130

Matrix Spike (B5H2303-MS1)

Source: 0508013-01

Prepared: 8/23/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.53		4.80	73.5	39-117

Matrix Spike (B5H2303-MS1)

Source: 0508013-01

Prepared: 8/23/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Total PCBs	21.4			28.8		74.3	50-150



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Homolog PCBs by EPA Method 680 - GC/MS - Quality Control

Batch: B5H2303

Sample Type: Liquid

Matrix Spike Dup (B5H2303-MSD1)

Source: 0508013-01

Prepared: 8/23/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.56		4.81	74.0	39-117

Matrix Spike Dup (B5H2303-MSD1)

Source: 0508013-01

Prepared: 8/23/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit
Total PCBs	21.3			28.9		73.7	50-150	0.47 25



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3001

Sample Type: Solid

Blank (B5H3001-BLK1)

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Limit
Aluminum	U		5.0
Antimony	U		3.0
Arsenic	U		5.0
Barium	U		0.5
Beryllium	U		0.2
Cadmium	U		0.2
Calcium	U		7.5
Chromium	U		0.5
Cobalt	U		1.0
Copper	U		1.0
Iron	2.3		1.2
Lead	U		1.5
Magnesium	U		7.5
Manganese	U		0.2
Nickel	U		1.0
Potassium	U		50.0
Selenium	U		5.0
Silver	U		0.5
Thallium	U		5.0
Sodium	U		25.0
Vanadium	U		1.5
Zinc	U		1.0

LCS (B5H3001-BS1)

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Limit	Spike Level	%REC %REC Limits
Aluminum	10.7		5.0	10.0	107 75-125



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3001

Sample Type: Solid

LCS (B5H3001-BS1)

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Antimony	99.7		3.0	100	99.7 75-125
Arsenic	11.0		5.0	10.0	110 75-125
Barium	10.2		0.5	10.0	102 75-125
Beryllium	10.3		0.2	10.0	103 75-125
Cadmium	10.0		0.2	10.0	100 75-125
Calcium	16.0		7.5	10.0	160# 75-125
Chromium	10.3		0.5	10.0	103 75-125
Cobalt	10.3		1.0	10.0	103 75-125
Copper	11.1		1.0	10.0	111 75-125
Iron	12.8		1.2	10.0	128# 75-125
Lead	9.0		1.5	10.0	90.0 75-125
Magnesium	10.3		7.5	10.0	103 75-125
Manganese	10.4		0.2	10.0	104 75-125
Nickel	10.4		1.0	10.0	104 75-125
Potassium	U		50.0	20.0	75-125
Selenium	10.3		5.0	10.0	103 75-125
Silver	10.1		0.5	10.0	101 75-125
Thallium	10.6		5.0	10.0	106 75-125
Sodium	U		25.0	10.0	75-125
Vanadium	10.2		1.5	10.0	102 75-125
Zinc	10.6		1.0	10.0	106 75-125

Matrix Spike (B5H3001-MS1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aluminum	3,080		3.8	7.70	3,140	NR# 75-125
Antimony	43.8		2.3	77.0	56.9#	75-125



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3001

Sample Type: Solid

Matrix Spike (B5H3001-MS1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Arsenic	5.8		3.8	7.70		75.3 75-125
Barium	58.2		0.4	7.70	52.2	77.9 75-125
Beryllium	8.2		0.2	7.70	0.3	103 75-125
Cadmium	7.5		0.2	7.70	0.3	93.5 75-125
Calcium	10,600		5.8	7.70	11,300	NR# 75-125
Chromium	13.1		0.4	7.70	5.7	96.1 75-125
Cobalt	8.9		0.8	7.70	1.2	100 75-125
Copper	12.1		0.8	7.70	4.5	98.7 75-125
Iron	3,470		1.0	7.70	3,380	NR# 75-125
Lead	13.9		1.2	7.70	6.7	93.5 75-125
Magnesium	155		5.8	7.70	156	NR# 75-125
Manganese	111		0.2	7.70	106	64.9# 75-125
Nickel	9.0		0.8	7.70	1.7	94.8 75-125
Potassium	98.3		38.5	15.4	88.3	64.9# 75-125
Selenium	6.6		3.8	7.70		85.7 75-125
Silver	7.2		0.4	7.70		93.5 75-125
Thallium	6.6		3.8	7.70		85.7 75-125
Sodium	198		19.2	7.70	201	NR# 75-125
Vanadium	17.4		1.2	7.70	9.6	101 75-125
Zinc	13.5		0.8	7.70	6.4	92.2 75-125

Matrix Spike Dup (B5H3001-MSD1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD Limit
Aluminum	3,100		3.8	7.64	3,140	NR# 75-125	0.65 20
Antimony	41.4		2.3	76.4		54.2# 75-125	5.63 20
Arsenic	7.1		3.8	7.64		92.9 75-125	20.2 # 20



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3001

Sample Type: Solid

Matrix Spike Dup (B5H3001-MSD1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Barium	61.6		0.4	7.64	52.2	123 75-125	5.68	20
Beryllium	8.1		0.2	7.64	0.3	102 75-125	1.23	20
Cadmium	7.6		0.2	7.64	0.3	95.5 75-125	1.32	20
Calcium	10,600		5.7	7.64	11,300	NR# 75-125	0.00	20
Chromium	13.4		0.4	7.64	5.7	101 75-125	2.26	20
Cobalt	9.0		0.8	7.64	1.2	102 75-125	1.12	20
Copper	12.3		0.8	7.64	4.5	102 75-125	1.64	20
Iron	4,120		1.0	7.64	3,380	NR# 75-125	17.1	20
Lead	14.5		1.1	7.64	6.7	102 75-125	4.23	20
Magnesium	161		5.7	7.64	156	65.4# 75-125	3.80	20
Manganese	127		0.2	7.64	106	275# 75-125	13.4	20
Nickel	9.2		0.8	7.64	1.7	98.2 75-125	2.20	20
Potassium	101		38.2	15.3	88.3	83.0 75-125	2.71	20
Selenium	7.6		3.8	7.64		99.5 75-125	14.1	20
Silver	7.0		0.4	7.64		91.6 75-125	2.82	20
Thallium	6.3		3.8	7.64		82.5 75-125	4.65	20
Sodium	198		19.1	7.64	201	NR# 75-125	0.00	20
Vanadium	17.8		1.1	7.64	9.6	107 75-125	2.27	20
Zinc	13.7		0.8	7.64	6.4	95.5 75-125	1.47	20

Reference (B5H3001-SRM1)

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	291		50.8	309		94.2 62-137		
Antimony	297		30.5	213		139 61-139		
Arsenic	932		50.8	930		100 66-134		
Barium	5.9		5.1	5.30		111 47-152		



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Batch: B5H3001

Sample Type: Solid

Reference (B5H3001-SRM1)

Prepared: 8/30/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Beryllium	20.7		2.5	18.8		110 82-118	
Cadmium	42.6		2.5	41.6		102 77-122	
Calcium	191,000		76.2	184,000		104 78-122	
Chromium	106		5.1	96.5		110 81-119	
Cobalt	154		10.2	140		110 82-118	
Copper	6,940		10.2	6,680		104 86-133	
Iron	24,000		12.7	21,000		114 80-120	
Lead	224		15.2	224		100 75-125	
Magnesium	118,000		76.2	113,000		104 86-132	
Manganese	222		2.5	201		110 84-116	
Nickel	64.4		10.2	56.8		113 77-161	
Potassium	U		254	102		10-368	
Selenium	37.4		25.4	37.0		101 48-152	
Silver	21.6		5.1	20.9		103 63-136	
Thallium	28.8		25.4	38.1		75.6 65-136	
Sodium	U		127	92.8		10-298	
Vanadium	76.0		15.2	65.8		116 81-119	
Zinc	174		10.2	175		99.4 73-127	



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3007

Sample Type: Solid

Blank (B5H3007-BLK1)

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Limit
Aluminum	U		5.0
Antimony	U		3.0
Arsenic	U		5.0
Barium	U		0.5
Beryllium	U		0.2
Cadmium	U		0.2
Calcium	U		7.5
Chromium	U		0.5
Cobalt	U		1.0
Copper	U		1.0
Iron	U		1.2
Lead	U		1.5
Magnesium	U		7.5
Manganese	U		0.2
Nickel	U		1.0
Potassium	U		50.0
Selenium	U		5.0
Silver	U		0.5
Thallium	U		5.0
Sodium	U		25.0
Vanadium	U		1.5
Zinc	U		1.0

LCS (B5H3007-BS1)

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Limit	Spike Level	%REC %REC Limits
Aluminum	10.9		5.0	10.0	109 75-125



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3007

Sample Type: Solid

LCS (B5H3007-BS1)

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Antimony	98.6		3.0	100	98.6 75-125
Arsenic	10.1		5.0	10.0	101 75-125
Barium	10.1		0.5	10.0	101 75-125
Beryllium	10.0		0.2	10.0	100 75-125
Cadmium	10.0		0.2	10.0	100 75-125
Calcium	11.4		7.5	10.0	114 75-125
Chromium	10.1		0.5	10.0	101 75-125
Cobalt	10.3		1.0	10.0	103 75-125
Copper	11.2		1.0	10.0	112 75-125
Iron	10.9		1.2	10.0	109 75-125
Lead	10.9		1.5	10.0	109 75-125
Magnesium	10.0		7.5	10.0	100 75-125
Manganese	10.2		0.2	10.0	102 75-125
Nickel	10.2		1.0	10.0	102 75-125
Potassium	U		50.0	20.0	75-125
Selenium	11.0		5.0	10.0	110 75-125
Silver	10.2		0.5	10.0	102 75-125
Thallium	10.1		5.0	10.0	101 75-125
Sodium	U		25.0	10.0	75-125
Vanadium	10.2		1.5	10.0	102 75-125
Zinc	10.8		1.0	10.0	108 75-125

Matrix Spike (B5H3007-MS1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aluminum	480		2.1	4.29	480	0.00# 75-125
Antimony	31.7		1.3	42.9		73.9# 75-125



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3007

Sample Type: Solid

Matrix Spike (B5H3007-MS1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets (Continued)

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Arsenic	3.8		2.1	4.29		88.6 75-125
Barium	15.0		0.2	4.29	12.1	67.6# 75-125
Beryllium	4.6		0.1	4.29	0.1	105 75-125
Cadmium	4.6		0.1	4.29	0.2	103 75-125
Calcium	144		3.2	4.29	150	NR# 75-125
Chromium	5.3		0.2	4.29	0.9	103 75-125
Cobalt	5.6		0.4	4.29	1.2	103 75-125
Copper	5.4		0.4	4.29	0.8	107 75-125
Iron	1,580		0.5	4.29	1,770	NR# 75-125
Lead	6.9		0.6	4.29	2.5	103 75-125
Magnesium	53.4		3.2	4.29	51.2	51.3# 75-125
Manganese	41.0		0.1	4.29	43.3	NR# 75-125
Nickel	5.1		0.4	4.29	0.6	105 75-125
Potassium	45.1		21.4	8.57	37.5	88.7 75-125
Selenium	4.8		2.1	4.29		112 75-125
Silver	4.2		0.2	4.29		97.9 75-125
Thallium	3.7		2.1	4.29		86.2 75-125
Sodium	15.8		10.7	4.29	12.0	88.6 75-125
Vanadium	8.7		0.6	4.29	5.0	86.2 75-125
Zinc	9.5		0.4	4.29	5.2	100 75-125

Matrix Spike Dup (B5H3007-MSD1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD Limit
Aluminum	465		2.6	5.25	480	NR# 75-125	3.17 20
Antimony	38.9		1.6	52.5		74.1# 75-125	20.4 # 20
Arsenic	5.0		2.6	5.25		95.2 75-125	27.3 # 20



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3007

Sample Type: Solid

Matrix Spike Dup (B5H3007-MSD1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets (Continued)

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Barium	16.7		0.3	5.25	12.1	87.6 75-125	10.7	20
Beryllium	5.5		0.1	5.25	0.1	103 75-125	17.8	20
Cadmium	5.6		0.1	5.25	0.2	103 75-125	19.6	20
Calcium	128		3.9	5.25	150	NR# 75-125	11.8	20
Chromium	6.3		0.3	5.25	0.9	103 75-125	17.2	20
Cobalt	6.5		0.5	5.25	1.2	101 75-125	14.9	20
Copper	6.4		0.5	5.25	0.8	107 75-125	16.9	20
Iron	1,600		0.7	5.25	1,770	NR# 75-125	1.26	20
Lead	7.9		0.8	5.25	2.5	103 75-125	13.5	20
Magnesium	52.8		3.9	5.25	51.2	30.5# 75-125	1.13	20
Manganese	42.6		0.1	5.25	43.3	NR# 75-125	3.83	20
Nickel	6.0		0.5	5.25	0.6	103 75-125	16.2	20
Potassium	47.2		26.2	10.5	37.5	92.4 75-125	4.55	20
Selenium	4.6		2.6	5.25		87.6 75-125	4.26	20
Silver	5.1		0.3	5.25		97.1 75-125	19.4	20
Thallium	4.5		2.6	5.25		85.7 75-125	19.5	20
Sodium	16.5		13.1	5.25	12.0	85.7 75-125	4.33	20
Vanadium	9.7		0.8	5.25	5.0	89.5 75-125	10.9	20
Zinc	10.6		0.5	5.25	5.2	103 75-125	10.9	20

Reference (B5H3007-SRM1)

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	273		49.7	309		88.3 62-137		
Antimony	261		29.8	213		123 61-139		
Arsenic	911		49.7	930		98.0 66-134		
Barium	5.2		5.0	5.30		98.1 47-152		



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Metals by EPA Method 6010B - ICP - Quality Control

Batch: B5H3007

Sample Type: Solid

Reference (B5H3007-SRM1)

Prepared: 8/30/2005 Analyzed: 9/2/2005

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Beryllium	19.9		2.5	18.8		106 82-118	
Cadmium	41.4		2.5	41.6		99.5 77-122	
Calcium	188,000		74.5	184,000		102 78-122	
Chromium	102		5.0	96.5		106 81-119	
Cobalt	151		9.9	140		108 82-118	
Copper	6,770		9.9	6,680		101 86-133	
Iron	22,900		12.4	21,000		109 80-120	
Lead	221		14.9	224		98.7 75-125	
Magnesium	115,000		74.5	113,000		102 86-132	
Manganese	215		2.5	201		107 84-116	
Nickel	61.5		9.9	56.8		108 77-161	
Potassium	U		248	102		10-368	
Selenium	48.1		24.8	37.0		130 48-152	
Silver	16.5		5.0	20.9		78.9 63-136	
Thallium	36.2		24.8	38.1		95.0 65-136	
Sodium	U		124	92.8		10-298	
Vanadium	74.4		14.9	65.8		113 81-119	
Zinc	175		9.9	175		100 73-127	



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3002

Sample Type: Solid

Blank (B5H3002-BLK1)

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit
Arsenic	U		0.2
Lead	U		0.2
Selenium	U		0.2
Thallium	U		0.2

LCS (B5H3002-BS1)

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC Limits
Arsenic	10.7		0.2	10.0	107 85-115
Lead	10.5		0.2	10.0	105 85-115
Selenium	9.9		0.2	10.0	99.0 85-115
Thallium	9.8		0.2	10.0	98.0 85-115

Matrix Spike (B5H3002-MS1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Arsenic	8.4		0.2	7.70	0.8	98.7 75-125
Lead	14.4		0.2	7.70	6.6	101 75-125
Selenium	9.1		0.2	7.70	3.0	79.2 75-125
Thallium	7.8		0.2	7.70		101 75-125



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3002

Sample Type: Solid

Matrix Spike Dup (B5H3002-MSD1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Arsenic	9.9		0.2	7.64	0.8	119 75-125	16.4	20
Lead	14.5		0.2	7.64	6.6	103 75-125	0.69	20
Selenium	9.3		0.2	7.64	3.0	82.5 75-125	2.17	20
Thallium	7.8		0.2	7.64		102 75-125	0.00	20

Reference (B5H3002-SRM1)

Prepared: 8/30/2005 Analyzed: 11/1/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Arsenic	1,200		5.1	930		129 66-134		
Lead	184		5.1	224		82.1 75-125		
Selenium	46.7		5.1	37.0		126 48-152		
Thallium	30.9		5.1	38.1		81.1 65-136		



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3008

Sample Type: Solid

Blank (B5H3008-BLK1)

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit
Aluminum	U		0.0005
Arsenic	U		0.2
Barium	U		0.0005
Beryllium	U		0.0005
Cadmium	U		0.0005
Chromium	U		0.0005
Cobalt	U		0.0005
Copper	U		0.0005
Lead	U		0.2
Manganese	U		0.0005
Molybdenum	U		0.0005
Nickel	U		0.0005
Selenium	U		0.2
Silver	U		0.0005
Thallium	U		0.2
Vanadium	U		0.0005
Zinc	U		0.0005

LCS (B5H3008-BS1)

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Aluminum	U		0.0005	10.0	85-115
Arsenic	11.0		0.2	10.0	110 85-115
Barium	U		0.0005	10.0	85-115
Beryllium	U		0.0005	10.0	85-115
Cadmium	U		0.0005	10.0	85-115
Chromium	U		0.0005	10.0	85-115



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3008

Sample Type: Solid

LCS (B5H3008-BS1)

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets (Continued)

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
Cobalt	U		0.0005	10.0	85-115
Copper	U		0.0005	10.0	85-115
Lead	10.5		0.2	10.0	105 85-115
Manganese	U		0.0005	10.0	85-115
Molybdenum	U		0.0005		85-115
Nickel	U		0.0005	10.0	85-115
Selenium	9.2		0.2	10.0	92.0 85-115
Silver	U		0.0005	10.0	85-115
Thallium	9.9		0.2	10.0	99.0 85-115
Vanadium	U		0.0005	10.0	85-115
Zinc	U		0.0005	10.0	85-115

Matrix Spike (B5H3008-MS1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Aluminum	0		0.0002	4.29		75-125
Arsenic	4.9		0.1	4.29	0.5	103 75-125
Barium	0		0.0002	4.29		75-125
Beryllium	0		0.0002	4.29		75-125
Cadmium	0		0.0002	4.29		75-125
Chromium	0		0.0002	4.29		75-125
Cobalt	0		0.0002	4.29		75-125
Copper	0		0.0002	4.29		75-125
Lead	6.6		0.1	4.29	2.1	105 75-125
Manganese	0		0.0002	4.29		75-125
Molybdenum	0		0.0002			75-125
Nickel	0		0.0002	4.29		75-125



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3008

Sample Type: Solid

Matrix Spike (B5H3008-MS1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets (Continued)

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Selenium	4.5		0.1	4.29	1.0	81.6 75-125
Silver	0		0.0002	4.29		75-125
Thallium	4.3		0.1	4.29		100 75-125
Vanadium	0		0.0002	4.29		75-125
Zinc	0		0.0002	4.29		75-125

Matrix Spike Dup (B5H3008-MSD1)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 10/28/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	0		0.0003	5.25		75-125		20
Arsenic	5.8		0.1	5.25	0.5	101 75-125	16.8	20
Barium	0		0.0003	5.25		75-125		20
Beryllium	0		0.0003	5.25		75-125		20
Cadmium	0		0.0003	5.25		75-125		20
Chromium	0		0.0003	5.25		75-125		20
Cobalt	0		0.0003	5.25		75-125		20
Copper	0		0.0003	5.25		75-125		20
Lead	7.3		0.1	5.25	2.1	99.0 75-125	10.1	20
Manganese	0		0.0003	5.25		75-125		20
Molybdenum	0		0.0003			75-125		20
Nickel	0		0.0003	5.25		75-125		20
Selenium	5.3		0.1	5.25	1.0	81.9 75-125	16.3	20
Silver	0		0.0003	5.25		75-125		20
Thallium	5.2		0.1	5.25		99.0 75-125	18.9	20
Vanadium	0		0.0003	5.25		75-125		20
Zinc	0		0.0003	5.25		75-125		20



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Metals by EPA Method 6020 - ICP MS - Quality Control

Batch: B5H3008

Sample Type: Solid

Reference (B5H3008-SRM1)

Prepared: 8/30/2005 Analyzed: 11/1/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Aluminum	U	0.0005	309		62-137	
Arsenic	1,230	5.0	930	132	66-134	
Barium	U	0.0005	5.30		47-152	
Beryllium	U	0.0005	18.8		82-118	
Cadmium	U	0.0005	41.6		77-122	
Chromium	U	0.0005	96.5		81-119	
Cobalt	U	0.0005	140		82-118	
Copper	U	0.0005	6,680		86-133	
Lead	175	5.0	224	78.1	75-125	
Manganese	U	0.0005	201		84-116	
Nickel	U	0.0005	56.8		77-161	
Selenium	44.5	5.0	37.0	120	48-152	
Silver	U	0.0005	20.9		63-136	
Thallium	30.6	5.0	38.1	80.3	65-136	
Vanadium	U	0.0005	65.8		81-119	
Zinc	U	0.0005	175		73-127	



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Metals by EPA Method 7470A/7471A - CVAAS - Quality Control

Batch: B5I2103

Sample Type: Solid

Blank (B5I2103-BLK1)

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result	Analyte Reporting
	mg/kg wet	Qualifiers Limit
Mercury	U	0.04

LCS (B5I2103-BS1)

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result	Analyte Reporting	Spike	%REC
	mg/kg wet	Qualifiers Limit	Level	%REC Limits
Mercury	0.2	0.04	0.200	100 75-125

Matrix Spike (B5I2103-MS1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result	Analyte Reporting	Spike	Source	%REC
	mg/kg dry	Qualifiers Limit	Level	Result	%REC Limits
Mercury	0.4	0.01	0.0554	0.3	181# 75-125

Matrix Spike (B5I2103-MS2)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result	Analyte Reporting	Spike	Source	%REC
	mg/kg dry	Qualifiers Limit	Level	Result	%REC Limits
Mercury	0.02	0.003	0.0171	0.005	87.7 75-125



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Metals by EPA Method 7470A/7471A - CVAAS - Quality Control

Batch: B5I2103

Sample Type: Solid

Matrix Spike Dup (B5I2103-MSD1)

Source: 0508013-08

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit
Mercury	0.3		0.009	0.0437	0.3	0.00# 75-125	28.6 #	20

Matrix Spike Dup (B5I2103-MSD2)

Source: 0508014-04

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit
Mercury	0.02		0.004	0.0210	0.005	71.4# 75-125	0.00	20

Reference (B5I2103-SRM1)

Prepared: 8/30/2005 Analyzed: 8/31/2005

Targets

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit
Mercury	12.7		0.8	12.3		103 63-137		



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1026

Sample Type: Liquid

Blank (B5H1026-BLK1)

Prepared: 8/10/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	420		500	84.0	63-136
<i>Surr: Tributyl phosphate</i>	405		500	81.0	53-104

Blank (B5H1026-BLK1)

Prepared: 8/10/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit
Atrazine	U		20.0
Diazinon	U		10.0
Methyl parathion	U		20.0
Molinate	U		100
Carbofuran	U		30.0

LCS (B5H1026-BS1)

Prepared: 8/10/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	455		500	91.0	63-136
<i>Surr: Tributyl phosphate</i>	456		500	91.2	53-104

LCS (B5H1026-BS1)

Prepared: 8/10/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1026

Sample Type: Liquid

LCS (B5H1026-BS1)

Prepared: 8/10/2005 Analyzed: 8/23/2005

Targets (Continued)

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Atrazine	174		20.0	200	87.0 42-125
Diazinon	165		10.0	200	82.5 70-130
Methyl parathion	165		20.0	200	82.5 70-130
Molinate	230		100	200	115 70-130
Carbofuran	2,040		150	2,500	81.6 70-130

Matrix Spike (B5H1026-MS1)

Source: 0508013-01

Prepared: 8/10/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC Limits
<i>Surr: Triphenyl phosphate</i>	450		482	93.4 63-136
<i>Surr: Tributyl phosphate</i>	381		482	79.0 53-104

Matrix Spike (B5H1026-MS1)

Source: 0508013-01

Prepared: 8/10/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Atrazine	182		19.3	193	11.6	88.3 42-125
Diazinon	175		9.6	193		90.7 70-130
Methyl parathion	177		19.3	193		91.7 70-130
Molinate	198		96.3	193		103 70-130
Carbofuran	2,000		145	2,410		83.0 70-130



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1026

Sample Type: Liquid

Matrix Spike Dup (B5H1026-MSD1)

Source: 0508013-01

Prepared: 8/10/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	Limits
<i>Surr: Triphenyl phosphate</i>	527		491	107	63-136
<i>Surr: Tributyl phosphate</i>	417		491	84.9	53-104

Matrix Spike Dup (B5H1026-MSD1)

Source: 0508013-01

Prepared: 8/10/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Atrazine	201		19.6	196	11.6	96.6	42-125	9.92	30
Diazinon	190		9.8	196		96.9	70-130	8.22	30
Methyl parathion	187		19.6	196		95.4	70-130	5.49	30
Molinate	229		98.1	196		117	70-130	14.5	30
Carbofuran	2,220		147	2,450		90.6	70-130	10.4	30



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1120

Sample Type: Liquid

Blank (B5H1120-BLK1)

Prepared: 8/11/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	498		500	99.6	63-136
<i>Surr: Tributyl phosphate</i>	429		500	85.8	53-104

Blank (B5H1120-BLK1)

Prepared: 8/11/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit
Atrazine	U		20.0
Diazinon	U		10.0
Methyl parathion	U		20.0
Molinate	U		100
Carbofuran	U		30.0

LCS (B5H1120-BS1)

Prepared: 8/11/2005 Analyzed: 8/23/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	467		500	93.4	63-136
<i>Surr: Tributyl phosphate</i>	452		500	90.4	53-104

LCS (B5H1120-BS1)

Prepared: 8/11/2005 Analyzed: 8/23/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1120

Sample Type: Liquid

LCS (B5H1120-BS1)

Prepared: 8/11/2005 Analyzed: 8/23/2005

Targets (Continued)

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Atrazine	192		20.0	200	96.0 42-125
Diazinon	180		10.0	200	90.0 70-130
Methyl parathion	176		20.0	200	88.0 70-130
Molinate	240		100	200	120 70-130
Carbofuran	2,130		150	2,500	85.2 70-130



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1905

Sample Type: Solid

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	30.8		33.3	92.5	70-130
<i>Surr: Tributyl phosphate</i>	27.2		33.3	81.7	70-130

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Atrazine	U		3.3
Diazinon	U		1.7
Methyl parathion	U		3.3
Molinate	U		16.6
Carbofuran	U		5.0

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	29.4		33.2	88.6	70-130
<i>Surr: Tributyl phosphate</i>	30.1		33.2	90.7	70-130

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1905

Sample Type: Solid

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Atrazine	23.2		3.3	26.6	87.2 70-130
Diazinon	19.0		1.7	26.6	71.4 70-130
Methyl parathion	19.2		3.3	26.6	72.2 70-130
Molinate	16.4		16.6	26.6	61.7# 70-130
Carbofuran	327		10.0	332	98.5 70-130

Matrix Spike (B5H1905-MS1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC Limits
<i>Surr: Triphenyl phosphate</i>	41.4		42.3	97.9 70-130
<i>Surr: Tributyl phosphate</i>	37.4		42.3	88.4 70-130

Matrix Spike (B5H1905-MS1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Atrazine	29.7		4.2	33.8		87.9 70-130
Diazinon	26.3		2.1	33.8		77.8 70-130
Methyl parathion	28.2		4.2	33.8		83.4 70-130
Molinate	27.4		21.1	33.8		81.1 70-130
Carbofuran	408		12.7	423		96.5 70-130



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Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control

Batch: B5H1905

Sample Type: Solid

Matrix Spike Dup (B5H1905-MSD1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limit
<i>Surr: Triphenyl phosphate</i>	39.3		42.4	92.7	70-130
<i>Surr: Tributyl phosphate</i>	38.5		42.4	90.8	70-130

Matrix Spike Dup (B5H1905-MSD1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit
Atrazine	30.2		4.2	33.9	89.1	70-130	1.67	30	
Diazinon	25.5		2.1	33.9	75.2	70-130	3.09	30	
Methyl parathion	28.3		4.2	33.9	83.5	70-130	0.35	30	
Molinate	23.4		21.2	33.9	69.0#	70-130	15.7	30	
Carbofuran	407		12.7	424	96.0	70-130	0.25	30	



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	24.4		50.0	48.8	28-71
<i>Surr: Decachlorobiphenyl</i>	48.5		50.0	97.0	41-115

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit
Aldrin	U		10.0
alpha-BHC	U		10.0
beta-BHC	U		10.0
delta-BHC	U		10.0
gamma-BHC (Lindane)	U		10.0
Cyfluthrin	U		2.0
lambda-Cyhalothrin	U		1.0
4,4'-DDD	U		6.0
4,4'-DDE	U		10.0
4,4'-DDT	U		1.0
Dieldrin	U		10.0
Endosulfan I	U		10.0
Endosulfan II	U		10.0
Endosulfan sulfate	U		10.0
Endrin	U		10.0
Endrin aldehyde	U		10.0
Endrin ketone	U		10.0
Esfenvalerate	U		10.0
Heptachlor	U		3.0
Heptachlor epoxide	U		10.0
Methoxychlor	U		10.0



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets (Continued)

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Reporting Limit
Pendimethalin	U		500
Trifluralin	U		50.0

LCS (B5H1501-BS1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	Limit Limits
<i>Surr: Tetrachloro-meta-xylene</i>	29.3		50.0	58.6	28-71
<i>Surr: Decachlorobiphenyl</i>	46.0		50.0	92.0	41-115

LCS (B5H1501-BS1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limit Limits
Aldrin	40.1		10.0	50.0	80.2	41-91
alpha-BHC	40.2		10.0	50.0	80.4	70-130
beta-BHC	43.7		10.0	50.0	87.4	70-130
delta-BHC	45.4		10.0	50.0	90.8	70-130
gamma-BHC (Lindane)	45.0		10.0	50.0	90.0	24-100
Cyfluthrin	48.9		2.0	50.0	97.8	70-130
lambda-Cyhalothrin	45.0		1.0	50.0	90.0	70-130
4,4'-DDD	46.1		6.0	50.0	92.2	50-111
4,4'-DDE	42.9		10.0	50.0	85.8	55-97
4,4'-DDT	49.0		1.0	50.0	98.0	48-130
Dieldrin	45.1		10.0	50.0	90.2	53-100
Endosulfan I	44.3		10.0	50.0	88.6	44-112



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

LCS (B5H1501-BS1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets (Continued)

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Endosulfan II	47.4		10.0	50.0	94.8 70-130
Endosulfan sulfate	45.6		10.0	50.0	91.2 70-130
Endrin	47.8		10.0	50.0	95.6 53-127
Endrin aldehyde	45.3		10.0	50.0	90.6 70-130
Endrin ketone	44.9		10.0	50.0	89.8 70-130
Esfenvalerate	49.3		10.0	50.0	98.6 70-130
Heptachlor	40.9		3.0	50.0	81.8 35-110
Heptachlor epoxide	43.4		10.0	50.0	86.8 70-130
Methoxychlor	47.2		10.0	50.0	94.4 70-130
Pendimethalin	43.7		500	50.0	87.4 70-130
Trifluralin	45.6		50.0	50.0	91.2 70-130

Matrix Spike (B5H1501-MS1)

Source: 0508013-01

Prepared: 8/15/2005 Analyzed: 8/29/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	24.7		48.6	50.8 28-71
<i>Surr: Decachlorobiphenyl</i>	43.4		48.6	89.3 41-115

Matrix Spike (B5H1501-MS1)

Source: 0508013-01

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aldrin	37.2		9.7	48.6		76.5 41-91
alpha-BHC	38.8		9.7	48.6		79.8 70-130
beta-BHC	39.1		9.7	48.6		80.5 70-130



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

Matrix Spike (B5H1501-MS1)

Source: 0508013-01

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets (Continued)

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
delta-BHC	39.7		9.7	48.6	81.7	70-130
gamma-BHC (Lindane)	43.2		9.7	48.6	88.9	24-100
Cyfluthrin	47.2		1.9	48.6	97.1	70-130
lambda-Cyhalothrin	45.1		1.0	48.6	92.8	70-130
4,4'-DDD	42.5		5.8	48.6	87.4	50-111
4,4'-DDE	38.0		9.7	48.6	78.2	55-97
4,4'-DDT	41.2		1.0	48.6	84.8	48-130
Dieldrin	39.9		9.7	48.6	82.1	53-100
Endosulfan I	38.7		9.7	48.6	79.6	44-112
Endosulfan II	40.4		9.7	48.6	83.1	70-130
Endosulfan sulfate	44.4		9.7	48.6	91.4	70-130
Endrin	42.4		9.7	48.6	87.2	53-127
Endrin aldehyde	34.2		9.7	48.6	70.4	70-130
Endrin ketone	39.3		9.7	48.6	80.9	70-130
Esfenvalerate	50.3		9.7	48.6	103	70-130
Heptachlor	48.9		2.9	48.6	101	35-110
Heptachlor epoxide	37.5		9.7	48.6	77.2	70-130
Methoxychlor	43.8		9.7	48.6	90.1	70-130
Pendimethalin	50.8		486	48.6	105	70-130
Trifluralin	57.6		48.6	48.6	119	70-130

Matrix Spike Dup (B5H1501-MSD1)

Source: 0508013-01

Prepared: 8/15/2005 Analyzed: 8/29/2005

Surrogates

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	20.2		48.3	41.8 28-71
<i>Surr: Decachlorobiphenyl</i>	37.2		48.3	77.0 41-115



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

Matrix Spike Dup (B5H1501-MSD1)

Source: 0508013-01

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Aldrin	30.1	9.7	48.3	62.3	41-91	21.1	24
alpha-BHC	32.2	9.7	48.3	66.7#	70-130	18.6	30
beta-BHC	34.1	9.7	48.3	70.6	70-130	13.7	30
delta-BHC	34.1	9.7	48.3	70.6	70-130	15.2	30
gamma-BHC (Lindane)	37.7	9.7	48.3	78.1	24-100	13.6	28
Cyfluthrin	40.8	1.9	48.3	84.5	70-130	14.5	30
lambda-Cyhalothrin	37.9	1.0	48.3	78.5	70-130	17.3	30
4,4'-DDD	35.9	5.8	48.3	74.3	50-111	16.8	30
4,4'-DDE	30.6	9.7	48.3	63.4	55-97	21.6	30
4,4'-DDT	34.7	1.0	48.3	71.8	48-130	17.1	19
Dieldrin	33.9	9.7	48.3	70.2	53-100	16.3	22
Endosulfan I	32.0	9.7	48.3	66.3	44-112	19.0	30
Endosulfan II	35.3	9.7	48.3	73.1	70-130	13.5	30
Endosulfan sulfate	39.0	9.7	48.3	80.7	70-130	12.9	30
Endrin	35.7	9.7	48.3	73.9	53-127	17.2	23
Endrin aldehyde	24.8	9.7	48.3	51.3#	70-130	31.9 #	30
Endrin ketone	34.0	9.7	48.3	70.4	70-130	14.5	30
Esfenvalerate	43.1	9.7	48.3	89.2	70-130	15.4	30
Heptachlor	41.5	2.9	48.3	85.9	35-110	16.4	25
Heptachlor epoxide	32.1	9.7	48.3	66.5#	70-130	15.5	30
Methoxychlor	36.6	9.7	48.3	75.8	70-130	17.9	30
Pendimethalin	42.5	483	48.3	88.0	70-130	17.8	30
Trifluralin	48.1	48.3	48.3	99.6	70-130	18.0	30



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	4.08		8.32	49.0	11-113
<i>Surr: Decachlorobiphenyl</i>	7.26		8.32	87.3	35-138

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Aldrin	U		0.3
alpha-BHC	U		0.3
beta-BHC	U		0.3
delta-BHC	U		0.3
gamma-BHC (Lindane)	U		0.3
Cyfluthrin	U		0.3
lambda-Cyhalothrin	U		0.3
4,4'-DDD	U		0.3
4,4'-DDE	U		0.3
4,4'-DDT	U		0.3
Dieldrin	U		0.3
Endosulfan I	U		0.3
Endosulfan II	U		0.3
Endosulfan sulfate	U		0.3
Endrin	U		0.3
Endrin aldehyde	U		0.3
Endrin ketone	U		0.3
Esfenvalerate	U		0.3
Heptachlor	U		0.3
Heptachlor epoxide	U		0.3
Methoxychlor	U		0.3



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Pendimethalin	U		82.8
Trifluralin	U		8.3

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	Limits
<i>Surr: Tetrachloro-meta-xylene</i>	3.63		8.30	43.7	11-113
<i>Surr: Decachlorobiphenyl</i>	6.81		8.30	82.0	35-138

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit	Spike Level	%REC %REC	Limits
Aldrin	4.8		0.3	8.30	57.8#	70-130
alpha-BHC	6.0		0.3	8.30	72.3	70-130
beta-BHC	6.6		0.3	8.30	79.5	70-130
delta-BHC	6.7		0.3	8.30	80.7	70-130
gamma-BHC (Lindane)	6.3		0.3	8.30	75.9	70-130
Cyfluthrin	8.3		0.3	8.30	100	70-130
lambda-Cyhalothrin	8.2		0.3	8.30	98.8	70-130
4,4'-DDD	8.3		0.3	8.30	100	70-130
4,4'-DDE	6.0		0.3	8.30	72.3	70-130
4,4'-DDT	8.5		0.3	8.30	102	70-130
Dieldrin	6.1		0.3	8.30	73.5	70-130
Endosulfan I	5.9		0.3	8.30	71.1	70-130



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

LCS (B5H1905-BS1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Endosulfan II	7.1		0.3	8.30	85.5 70-130
Endosulfan sulfate	7.9		0.3	8.30	95.2 70-130
Endrin	7.0		0.3	8.30	84.3 70-130
Endrin aldehyde	6.8		0.3	8.30	81.9 70-130
Endrin ketone	7.9		0.3	8.30	95.2 70-130
Esfenvalerate	8.2		0.3	8.30	98.8 70-130
Heptachlor	6.4		0.3	8.30	77.1 70-130
Heptachlor epoxide	5.7		0.3	8.30	68.7# 70-130
Methoxychlor	7.6		0.3	8.30	91.6 70-130
Pendimethalin	7.8		82.7	8.30	94.0 70-130
Trifluralin	6.0		8.3	8.30	72.3 70-130

Matrix Spike (B5H1905-MS1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/8/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	5.65		10.6	53.3 11-113
<i>Surr: Decachlorobiphenyl</i>	6.46		10.6	60.9 35-138

Matrix Spike (B5H1905-MS1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aldrin	8.0		0.4	10.6		75.5 70-130
alpha-BHC	9.5		0.4	10.6		89.6 70-130
beta-BHC	7.5		0.4	10.6		70.8 70-130



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

Matrix Spike (B5H1905-MS1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
delta-BHC	8.3		0.4	10.6	78.3	70-130
gamma-BHC (Lindane)	11.0		0.4	10.6	104	70-130
Cyfluthrin	9.8		0.4	10.6	92.5	70-130
lambda-Cyhalothrin	10.8		0.4	10.6	102	70-130
4,4'-DDD	9.0		0.4	10.6	84.9	70-130
4,4'-DDE	6.7		0.4	10.6	63.2#	70-130
4,4'-DDT	9.3		0.4	10.6	87.7	70-130
Dieldrin	7.9		0.4	10.6	74.5	70-130
Endosulfan I	7.9		0.4	10.6	74.5	70-130
Endosulfan II	8.1		0.4	10.6	76.4	70-130
Endosulfan sulfate	9.2		0.4	10.6	86.8	70-130
Endrin	9.3		0.4	10.6	87.7	70-130
Endrin aldehyde	8.0		0.4	10.6	75.5	70-130
Endrin ketone	10.1		0.4	10.6	95.3	70-130
Esfenvalerate	10.2		0.4	10.6	96.2	70-130
Heptachlor	10.0		0.4	10.6	94.3	70-130
Heptachlor epoxide	8.0		0.4	10.6	75.5	70-130
Methoxychlor	9.2		0.4	10.6	86.8	70-130
Pendimethalin	15.4		105	10.6	145#	70-130
Trifluralin	9.9		10.5	10.6	93.4	70-130

Matrix Spike Dup (B5H1905-MSD1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/8/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	5.15		10.6	48.6	11-113
<i>Surr: Decachlorobiphenyl</i>	6.58		10.6	62.1	35-138



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Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

Matrix Spike Dup (B5H1905-MSD1)

Source: 0508014-04

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Aldrin	7.6	0.4	10.6	71.7	70-130	5.13	30
alpha-BHC	9.9	0.4	10.6	93.4	70-130	4.12	30
beta-BHC	8.3	0.4	10.6	78.3	70-130	10.1	30
delta-BHC	8.7	0.4	10.6	82.1	70-130	4.71	30
gamma-BHC (Lindane)	11.0	0.4	10.6	104	70-130	0.00	30
Cyfluthrin	9.7	0.4	10.6	91.5	70-130	1.03	30
lambda-Cyhalothrin	10.6	0.4	10.6	100	70-130	1.87	30
4,4'-DDD	8.9	0.4	10.6	84.0	70-130	1.12	30
4,4'-DDE	6.7	0.4	10.6	63.2#	70-130	0.00	30
4,4'-DDT	9.4	0.4	10.6	88.7	70-130	1.07	30
Dieldrin	7.9	0.4	10.6	74.5	70-130	0.00	30
Endosulfan I	7.6	0.4	10.6	71.7	70-130	3.87	30
Endosulfan II	8.4	0.4	10.6	79.2	70-130	3.64	30
Endosulfan sulfate	9.3	0.4	10.6	87.7	70-130	1.08	30
Endrin	9.3	0.4	10.6	87.7	70-130	0.00	30
Endrin aldehyde	7.5	0.4	10.6	70.8	70-130	6.45	30
Endrin ketone	9.8	0.4	10.6	92.5	70-130	3.02	30
Esfenvalerate	9.8	0.4	10.6	92.5	70-130	4.00	30
Heptachlor	10.6	0.4	10.6	100	70-130	5.83	30
Heptachlor epoxide	7.5	0.4	10.6	70.8	70-130	6.45	30
Methoxychlor	8.8	0.4	10.6	83.0	70-130	4.44	30
Pendimethalin	14.9	105	10.6	141#	70-130	3.30	30
Trifluralin	9.8	10.5	10.6	92.5	70-130	1.02	30



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	131		246	53.3	26-104
<i>Surr: Phenol-d5</i>	141		246	57.3	29-107
<i>Surr: 2-Chlorophenol-d4</i>	138		246	56.1	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	77.5		164	47.3	26-98
<i>Surr: Nitrobenzene-d5</i>	86.0		164	52.4	26-109
<i>Surr: 2-Fluorobiphenyl</i>	92.0		164	56.1	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	167		246	67.9	29-125
<i>Surr: Terphenyl-d14</i>	154		164	93.9	41-141

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Acenaphthene	U		32.8
Acenaphthylene	U		32.8
Acetophenone	U		131
Anthracene	U		32.8
Atrazine	U		131
Benzaldehyde	U		131
Benzoic acid	167	J	131
Benzo (a) anthracene	U		32.8
Benzo (a) pyrene	U		32.8
Benzo (b) fluoranthene	U		32.8
Benzo (g,h,i) perylene	U		32.8
Benzo (k) fluoranthene	U		32.8
Benzyl alcohol	U		65.7
1,1'-Biphenyl	U		131
Bis(2-chloroethoxy)methane	U		131
Bis(2-chloroethyl)ether	U		131



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result	Analyte Reporting µg/kg dryQualifiers	Limit
Bis(2-chloroisopropyl)ether	U		131
Bis(2-ethylhexyl)phthalate	U		65.7
4-Bromophenyl phenyl ether	U		131
Butyl benzyl phthalate	U		65.7
Carbazole	U		131
Caprolactam	U		131
4-Chloroaniline	U		131
2-Chloronaphthalene	U		131
2-Chlorophenol	U		131
4-Chlorophenyl phenyl ether	U		131
4-Chloro-3-methylphenol	U		131
Chrysene	U		32.8
Dibenzofuran	U		131
Dibenz (a,h) anthracene	U		32.8
1,2-Dichlorobenzene	U		32.8
1,3-Dichlorobenzene	U		32.8
1,4-Dichlorobenzene	U		32.8
3,3'-Dichlorobenzidine	U		131
2,4-Dichlorophenol	U		131
Diethyl phthalate	U		65.7
2,4-Dimethylphenol	U		32.8
Dimethyl phthalate	U		65.7
2,4-Dinitrophenol	U		65.7
2,4-Dinitrotoluene	U		131
2,6-Dinitrotoluene	U		131
4,6-Dinitro-2-methylphenol	U		65.7
Di-n-butyl phthalate	U		65.7
Di-n-octyl phthalate	U		65.7
1,2-Diphenylhydrazine	U		13.1
Fluoranthene	U		32.8



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result	Analyte Reporting μg/kg dryQualifiers	Limit
Fluorene	U		32.8
Hexachlorobenzene	U		13.1
Hexachlorobutadiene	U		32.8
Hexachlorocyclopentadiene	U		131
Hexachloroethane	U		131
Indeno (1,2,3-cd) pyrene	U		32.8
Isophorone	U		13.1
2-Methylnaphthalene	U		32.8
2-Methylphenol	U		65.7
3 &/or 4-Methylphenol	U		131
Naphthalene	U		32.8
2-Nitroaniline	U		263
3-Nitroaniline	U		263
4-Nitroaniline	U		263
Nitrobenzene	U		131
2-Nitrophenol	U		131
4-Nitrophenol	U		394
N-Nitrosodiphenylamine	U		32.8
N-Nitrosodi-n-propylamine	U		131
Pentachlorophenol	U		131
Phenanthrene	U		32.8
Phenol	U		131
Pyrene	U		32.8
2,4,5-Trichlorophenol	U		131
1,2,4-Trichlorobenzene	U		13.1
2,4,6-Trichlorophenol	U		131



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	191		250	76.4	26-104
<i>Surr: Phenol-d5</i>	175		250	70.0	29-107
<i>Surr: 2-Chlorophenol-d4</i>	198		250	79.2	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	155		167	92.8	26-98
<i>Surr: Nitrobenzene-d5</i>	140		167	83.8	26-109
<i>Surr: 2-Fluorobiphenyl</i>	141		167	84.4	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	167		250	66.8	29-125
<i>Surr: Terphenyl-d14</i>	171		167	102	41-141

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Acenaphthene	U		33.3
Acenaphthylene	U		33.3
Acetophenone	U		133
Anthracene	U		33.3
Atrazine	U		133
Benzaldehyde	U		133
Benzoic acid	U		133
Benzo (a) anthracene	U		33.3
Benzo (a) pyrene	U		33.3
Benzo (b) fluoranthene	U		33.3
Benzo (g,h,i) perylene	U		33.3
Benzo (k) fluoranthene	U		33.3
Benzyl alcohol	U		66.7
1,1'-Biphenyl	U		133
Bis(2-chloroethoxy)methane	U		133
Bis(2-chloroethyl)ether	U		133



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Bis(2-chloroisopropyl)ether	U		133
Bis(2-ethylhexyl)phthalate	U		66.7
4-Bromophenyl phenyl ether	U		133
Butyl benzyl phthalate	U		66.7
Carbazole	U		133
Caprolactam	U		133
4-Chloroaniline	U		133
2-Chloronaphthalene	U		133
2-Chlorophenol	U		133
4-Chlorophenyl phenyl ether	U		133
4-Chloro-3-methylphenol	U		133
Chrysene	U		33.3
Dibenzofuran	U		133
Dibenz (a,h) anthracene	U		33.3
1,2-Dichlorobenzene	U		33.3
1,3-Dichlorobenzene	U		33.3
1,4-Dichlorobenzene	U		33.3
3,3'-Dichlorobenzidine	U		133
2,4-Dichlorophenol	U		133
Diethyl phthalate	U		66.7
2,4-Dimethylphenol	U		33.3
Dimethyl phthalate	U		66.7
2,4-Dinitrophenol	U		667
2,4-Dinitrotoluene	U		133
2,6-Dinitrotoluene	U		133
4,6-Dinitro-2-methylphenol	U		667
Di-n-butyl phthalate	U		66.7
Di-n-octyl phthalate	U		66.7
1,2-Diphenylhydrazine	U		13.3
Fluoranthene	U		33.3



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Region 6 Laboratory

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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Blank (B5H2203-BLK2)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets (Continued)

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Fluorene	U		33.3
Hexachlorobenzene	U		13.3
Hexachlorobutadiene	U		33.3
Hexachlorocyclopentadiene	U		133
Hexachloroethane	U		133
Indeno (1,2,3-cd) pyrene	U		33.3
Isophorone	U		13.3
2-Methylnaphthalene	U		33.3
2-Methylphenol	U		66.7
3 &/or 4-Methylphenol	U		133
Naphthalene	U		33.3
2-Nitroaniline	U		267
3-Nitroaniline	U		267
4-Nitroaniline	U		267
Nitrobenzene	U		133
2-Nitrophenol	U		133
4-Nitrophenol	U		400
N-Nitrosodiphenylamine	U		33.3
N-Nitrosodi-n-propylamine	U		133
Pentachlorophenol	U		133
Phenanthrene	U		33.3
Phenol	U		133
Pyrene	U		33.3
1,2,4-Trichlorobenzene	U		13.3
2,4,5-Trichlorophenol	U		133
2,4,6-Trichlorophenol	U		133



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

LCS (B5H2203-BS1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	145		245	59.2	26-104
<i>Surr: Phenol-d5</i>	149		245	60.8	29-107
<i>Surr: 2-Chlorophenol-d4</i>	156		245	63.7	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	102		163	62.6	26-98
<i>Surr: Nitrobenzene-d5</i>	102		163	62.6	26-109
<i>Surr: 2-Fluorobiphenyl</i>	104		163	63.8	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	177		245	72.2	29-125
<i>Surr: Terphenyl-d14</i>	158		163	96.9	41-141

LCS (B5H2203-BS1)

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acenaphthene	103		32.6	163	63.2	38-99
2-Chlorophenol	144		131	245	58.8	36-94
4-Chloro-3-methylphenol	166		131	245	67.8	40-107
1,4-Dichlorobenzene	77.7		32.6	163	47.7	34-88
2,4-Dinitrotoluene	94.6		131	163	58.0	38-120
4-Nitrophenol	197		392	245	80.4	26-118
N-Nitrosodi-n-propylamine	100		131	163	61.3	33-98
Pentachlorophenol	178		131	245	72.7	17-105
Phenol	139		131	245	56.7	37-95
Pyrene	132		32.6	163	81.0	39-122
1,2,4-Trichlorobenzene	92.0		13.1	163	56.4	36-96



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Matrix Spike (B5H2203-MS1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	229		321	71.3	26-104
<i>Surr: Phenol-d5</i>	234		321	72.9	29-107
<i>Surr: 2-Chlorophenol-d4</i>	245		321	76.3	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	132		214	61.7	26-98
<i>Surr: Nitrobenzene-d5</i>	154		214	72.0	26-109
<i>Surr: 2-Fluorobiphenyl</i>	159		214	74.3	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	284		321	88.5	29-125
<i>Surr: Terphenyl-d14</i>	219		214	102	41-141

Matrix Spike (B5H2203-MS1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Acenaphthene	156		42.9	214		72.9 31-107
2-Chlorophenol	231		171	321		72.0 29-92
4-Chloro-3-methylphenol	257		171	321		80.1 33-119
1,4-Dichlorobenzene	111		42.9	214		51.9 26-85
2,4-Dinitrotoluene	145		171	214		67.8 37-115
4-Nitrophenol	302		514	321		94.1 19-132
N-Nitrosodi-n-propylamine	161		171	214		75.2 27-95
Pentachlorophenol	289		171	321		90.0 21-130
Phenol	220		171	321		68.5 29-95
Pyrene	195		42.9	214		91.1 31-132
1,2,4-Trichlorobenzene	133		17.1	214		62.1 27-98



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Semivolatiles by EPA Method 8270 - GC/MS - Quality Control

Batch: B5H2203

Sample Type: Solid

Matrix Spike Dup (B5H2203-MSD1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/1/2005

Surrogates

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	251		318	78.9	26-104
<i>Surr: Phenol-d5</i>	263		318	82.7	29-107
<i>Surr: 2-Chlorophenol-d4</i>	272		318	85.5	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	150		212	70.8	26-98
<i>Surr: Nitrobenzene-d5</i>	175		212	82.5	26-109
<i>Surr: 2-Fluorobiphenyl</i>	178		212	84.0	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	314		318	98.7	29-125
<i>Surr: Terphenyl-d14</i>	235		212	111	41-141

Matrix Spike Dup (B5H2203-MSD1)

Source: 0508014-04

Prepared: 8/22/2005 Analyzed: 9/1/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit
Acenaphthene	172		42.5	212	81.1	31-107	9.76 31
2-Chlorophenol	256		170	318	80.5	29-92	10.3 31
4-Chloro-3-methylphenol	284		170	318	89.3	33-119	9.98 37
1,4-Dichlorobenzene	120		42.5	212	56.6	26-85	7.79 36
2,4-Dinitrotoluene	161		170	212	75.9	37-115	10.5 33
4-Nitrophenol	318		510	318	100	19-132	5.16 38
N-Nitrosodi-n-propylamine	180		170	212	84.9	27-95	11.1 34
Pentachlorophenol	307		170	318	96.5	21-130	6.04 44
Phenol	239		170	318	75.2	29-95	8.28 34
Pyrene	213		42.5	212	100	31-132	8.82 38
1,2,4-Trichlorobenzene	148		17.0	212	69.8	27-98	10.7 36



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Toxaphene and Tech. Chlordane by 8081A - GC/ECD - Quality Control

Batch: B5H1501

Sample Type: Liquid

Blank (B5H1501-BLK1)

Prepared: 8/15/2005 Analyzed: 8/29/2005

Targets

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Limit
Chlordane (tech)	U		10.0
Toxaphene	U		60.0



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Toxaphene and Tech. Chlordane by 8081A - GC/ECD - Quality Control

Batch: B5H1905

Sample Type: Solid

Blank (B5H1905-BLK1)

Prepared: 8/19/2005 Analyzed: 9/8/2005

Targets

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Chlordane (tech)	U		1.7
Toxaphene	U		10.0



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Subcontracted Results

from

**TCEQ Laboratory
5144 E. Sam Houston Prkwy N.
Houston, TX 77015**



Environmental Protection Agency
Region 6 Laboratory

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

Methods for Chemical Analysis of Water & Waste

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Ammonia Nitrogen	Analyte Qualifier	Specific Method	Date Analyzed
		Result mg/L			
0508013-01	Field Duplicate 01	0.25		350.1	08/23/05
0508013-03	Coffee Dn 01	4.96		350.1	08/23/05
0508013-05	Mossy 01	1.01		350.1	08/23/05
0508013-07	Coffee Up 01	0.13		350.1	08/23/05
0508014-01	Ouachita Dn 01	0.08		350.1	08/23/05
0508014-03	Ouachita Up 01	0.10		350.1	08/23/05
0508014-05	Field Blank 01	<0.05		350.1	08/23/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Nitrogen, Nitrate(Analyte Qualifier	Specific Method	Date Analyzed
		Calculated) Result mg/L			
0508013-01	Field Duplicate 01	<0.02		353.2	08/24/05
0508013-03	Coffee Dn 01	<0.02		353.2	08/24/05
0508013-05	Mossy 01	<0.02		353.2	08/24/05
0508013-07	Coffee Up 01	<0.02		353.2	08/24/05
0508014-01	Ouachita Dn 01	<0.02		353.2	08/24/05
0508014-03	Ouachita Up 01	<0.02		353.2	08/24/05
0508014-05	Field Blank 01	<0.02		353.2	08/24/05



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Methods for Chemical Analysis of Water & Waste

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Nitrogen, Nitrite	Analyte Qualifier	Specific Method	Date Analyzed
		Result mg/L			
0508013-01	Field Duplicate 01	<0.02		353.2	08/11/05
0508013-03	Coffee Dn 01	0.06		353.2	08/11/05
0508013-05	Mossy 01	0.07		353.2	08/11/05
0508013-07	Coffee Up 01	<0.02		353.2	08/11/05
0508014-01	Ouachita Dn 01	<0.02		353.2	08/12/05
0508014-03	Ouachita Up 01	<0.02		353.2	08/12/05
0508014-05	Field Blank 01	<0.02		353.2	08/12/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	NPOC (TOC)	Analyte Qualifier	Specific Method	Date Analyzed
		Result mg/L			
0508013-01	Field Duplicate 01	12		415.2	08/19/05
0508013-03	Coffee Dn 01	110		415.2	08/19/05
0508013-05	Mossy 01	101		415.2	08/19/05
0508013-07	Coffee Up 01	12		415.2	08/19/05
0508014-01	Ouachita Dn 01	5		415.2	08/19/05
0508014-03	Ouachita Up 01	3		415.2	08/19/05
0508014-05	Field Blank 01	<1		415.2	08/19/05



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Methods for Chemical Analysis of Water & Waste

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	NPOC (TOC)		Specific Method	Date Analyzed
		Result mg/kg	Analyte Qualifier		
0508013-02	Field Duplicate 02	5660		415.1	08/25/05
0508013-04	Coffee Dn 02	16000		415.1	08/25/05
0508013-06	Mossy 02	51400		415.1	08/25/05
0508013-08	Coffee Up 02	11100		415.1	08/25/05
0508014-02	Ouachita Dn 02	<4000		415.1	08/25/05
0508014-04	Ouachita Up 02	<4000		415.1	08/25/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Phosphorus, Total		Specific Method	Date Analyzed
		Result mg/L	Analyte Qualifier		
0508013-01	Field Duplicate 01	0.28		365.1	08/22/05
0508013-03	Coffee Dn 01	1.26		365.1	08/22/05
0508013-05	Mossy 01	1.18		365.1	08/22/05
0508013-07	Coffee Up 01	0.26		365.1	08/22/05
0508014-01	Ouachita Dn 01	<0.05		365.1	08/25/05
0508014-03	Ouachita Up 01	<0.05		365.1	08/25/05
0508014-05	Field Blank 01	<0.05		365.1	08/25/05



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Methods for Chemical Analysis of Water & Waste

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Dissolved Solids Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	165		160.1	08/15/05
0508013-03	Coffee Dn 01	1900		160.1	08/15/05
0508013-05	Mossy 01	1580		160.1	08/15/05
0508013-07	Coffee Up 01	165		160.1	08/15/05
0508014-01	Ouachita Dn 01	103		160.1	08/17/05
0508014-03	Ouachita Up 01	59		160.1	08/17/05
0508014-05	Field Blank 01	<10		160.1	08/17/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Kjeldahl Nitrogen Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	1.80		351.2	08/30/05
0508013-03	Coffee Dn 01	10.6		351.2	08/31/05
0508013-05	Mossy 01	8.80		351.2	08/31/05
0508013-07	Coffee Up 01	1.31		351.2	08/22/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Suspended Solids Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	28		160.2	08/12/05
0508013-03	Coffee Dn 01	26		160.2	08/12/05
0508013-05	Mossy 01	74		160.2	08/12/05
0508013-07	Coffee Up 01	30		160.2	08/12/05
0508014-01	Ouachita Dn 01	7		160.2	08/12/05
0508014-03	Ouachita Up 01	6		160.2	08/12/05
0508014-05	Field Blank 01	<1		160.2	08/12/05



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Methods for Chemical Analysis of Water & Waste

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Volatile Suspended Solids Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	9		160.4	08/12/05
0508013-03	Coffee Dn 01	18		160.4	08/12/05
0508013-05	Mossy 01	59		160.4	08/12/05
0508013-07	Coffee Up 01	10		160.4	08/12/05
0508014-01	Ouachita Dn 01	2		160.4	08/12/05
0508014-03	Ouachita Up 01	1		160.4	08/12/05
0508014-05	Field Blank 01	<1		160.4	08/12/05



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**Methods for Determination of Inorganic Substances in
Environmental Samples
(Subcontracted to TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Chloride Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	9		300.0	08/12/05
0508013-03	Coffee Dn 01	194		300.0	08/12/05
0508013-05	Mossy 01	203		300.0	08/12/05
0508013-07	Coffee Up 01	10		300.0	08/12/05
0508014-01	Ouachita Dn 01	15		300.0	08/12/05
0508014-03	Ouachita Up 01	11		300.0	08/12/05
0508014-05	Field Blank 01	<1		300.0	08/12/05

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Sulfate Result mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	2		300.0	08/12/05
0508013-03	Coffee Dn 01	461		300.0	08/12/05
0508013-05	Mossy 01	384		300.0	08/12/05
0508013-07	Coffee Up 01	2		300.0	08/12/05
0508014-01	Ouachita Dn 01	16		300.0	08/12/05
0508014-03	Ouachita Up 01	8		300.0	08/12/05
0508014-05	Field Blank 01	<1		300.0	08/12/05



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Standard Methods,
(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Chlorophyll-A	Analyte Qualifier	Specific Method	Date Analyzed
		Result ug/L			
0508013-01	Field Duplicate 01	59.4		10200H	08/11/05
0508013-03	Coffee Dn 01	<10		10200H	08/11/05
0508013-05	Mossy 01	983		10200H	08/11/05
0508013-07	Coffee Up 01	43.4		10200H	08/11/05
0508014-01	Ouachita Dn 01	14.7		10200H	08/11/05
0508014-03	Ouachita Up 01	<10		10200H	08/11/05
0508014-05	Field Blank 01	<10		10200H	08/11/05

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Percent Total Solids	Analyte Qualifier	Specific Method	Date Analyzed
		Result Percent			
0508013-02	Field Duplicate 02	71.78		2540B	08/16/05
0508013-04	Coffee Dn 02	53.23		2540B	08/16/05
0508013-06	Mossy 02	26.89		2540B	08/16/05
0508013-08	Coffee Up 02	72.32		2540B	08/16/05
0508014-02	Ouachita Dn 02	51.61		2540B	08/16/05
0508014-04	Ouachita Up 02	72.27		2540B	08/16/05



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Standard Methods,
(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Pheophytin-A Result ug/L	Analyte Qualifier	Specific Method	Date Analyzed
0508013-01	Field Duplicate 01	19.1		10200H	08/11/05
0508013-03	Coffee Dn 01	<5		10200H	08/11/05
0508013-05	Mossy 01	137		10200H	08/11/05
0508013-07	Coffee Up 01	9.41		10200H	08/11/05
0508014-01	Ouachita Dn 01	5.87		10200H	08/11/05
0508014-03	Ouachita Up 01	<5		10200H	08/11/05
0508014-05	Field Blank 01	<5		10200H	08/11/05



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TNRCC Houston Laboratory,

(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Clay Result Percent	Analyte Qualifier	Specific Method	Date Analyzed
0508013-02	Field Duplicate 02	27.03		SOP 160	08/19/05
0508013-04	Coffee Dn 02	9.75		SOP 160	08/19/05
0508013-06	Mossy 02	31.27		SOP 160	08/19/05
0508013-08	Coffee Up 02	28.95		SOP 160	08/19/05
0508014-02	Ouachita Dn 02	3.53		SOP 160	08/23/05
0508014-04	Ouachita Up 02	1.59		SOP 160	08/23/05

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Gravel Result Percent	Analyte Qualifier	Specific Method	Date Analyzed
0508013-02	Field Duplicate 02	<0.01		SOP 160	08/19/05
0508013-04	Coffee Dn 02	<0.01		SOP 160	08/19/05
0508013-06	Mossy 02	<0.01		SOP 160	08/19/05
0508013-08	Coffee Up 02	<0.01		SOP 160	08/19/05
0508014-02	Ouachita Dn 02	<0.01		SOP 160	08/23/05
0508014-04	Ouachita Up 02	<0.01		SOP 160	08/23/05

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Sand Result Percent	Analyte Qualifier	Specific Method	Date Analyzed
0508013-02	Field Duplicate 02	25.56		SOP 160	08/19/05
0508013-04	Coffee Dn 02	85.78		SOP 160	08/19/05
0508013-06	Mossy 02	8.96		SOP 160	08/19/05
0508013-08	Coffee Up 02	25.68		SOP 160	08/19/05
0508014-02	Ouachita Dn 02	80.25		SOP 160	08/23/05
0508014-04	Ouachita Up 02	94.03		SOP 160	08/23/05



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TNRCC Houston Laboratory,
(Subcontracted to TCEQ)

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Silt Result Percent	Analyte Qualifier	Specific Method	Date Analyzed
0508013-02	Field Duplicate 02	47.40		SOP 160	08/19/05
0508013-04	Coffee Dn 02	4.47		SOP 160	08/19/05
0508013-06	Mossy 02	59.77		SOP 160	08/19/05
0508013-08	Coffee Up 02	45.37		SOP 160	08/19/05
0508014-02	Ouachita Dn 02	14.22		SOP 160	08/23/05
0508014-04	Ouachita Up 02	4.38		SOP 160	08/23/05



Environmental Protection Agency
Region 6 Laboratory

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Notes and Definitions

- RL The reporting limit for this analyte was raised because absence or presence at the routine or lower value could not be verified"
- R6HTA Analyte was prepared and/or analyzed past recommended holding time. Concentration should be considered a minimum value.
- R6B Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
- NJ There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.
- L The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
- K The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Bio* *
- Bio <0.1
- * Significantly different ($p \Rightarrow 0.95$) from the control.
- R6A This sample was extracted at a single acid pH.
- R6HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.



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

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

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

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec. Aqueous Mercury Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-001)

AE ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Dil. Fac.	Hg (ng/L)
Field Samples (Notes 1)									
Event # 1 (9-10 August 2005)									
HH-3620	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	10.9
HH-3627	8/9/2005 1130	Coffee Creek (Downstream, Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	16.2
HH-3631	8/9/2005 1420	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	4.57
HH-3639	8/10/2005 1015	Ouachita River (Upstream, Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	1.0	1.17
HH-3635	8/10/2005 0930	Ouachita River (Downstream, Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	1.0	1.30
Event # 2 (18-19 October 2005)									
HH-4756	10/18/2005 0815	Reference Site (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	4.32
HH-4768	10/18/2005 0950	Coffee Creek (Site # 2)	Manual Grab	Surface Water	Total Rec.	EPA 1631e	11/6/2005	2.0	5.88
HH-4771	10/18/2005 1125	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	4.00
HH-4779	10/19/2005 0933	Ouachita Upstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	1.05
HH-4775	10/19/2005 0920	Ouachita Downstream (Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	1.20
Notes:									
1. All total recoverable mercury (Hg) concentrations in nanograms per liter (= parts per trillion).									
Field Quality Assurance (QA) Samples									
Equipment Blanks									
HH-2986	5/3/2005 1220	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	8/2/2005	1.0	< 0.20
HH-2398	5/17/2005	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	6/2/2005	1.0	< 0.20
HH-4147	9/14/2005	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	9/17/2005	1.0	< 0.20
HH-1475	1/4/2005 1059	Albion Env.	Bottle Blank (Glass 250)	DIW	Total Rec.	EPA 1631e	4/7/2005	1.0	< 0.20
HH-4150	9/14/2005	Albion Env.	Bottle Blank (Glass 250)	DIW	Total Rec.	EPA 1631e	9/17/2005	1.0	< 0.20
Field Blanks									
HH-3618	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Pour Field Blank	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	< 0.20
HH-4754	10/18/2005 0815	Reference Site (Site # 1)	Field Blank	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	< 0.20
Field Duplicate									
HH-4768	10/18/2005 0950	Coffee Creek (Site # 2)	Manual Grab	Surface Water	Total Rec.	EPA 1631e	11/6/2005	2.0	5.88
HH-4769	10/18/2005 0950	Coffee Creek (Site # 2)	Manual FDUP	Surface Water	Total Rec.	EPA 1631e	11/6/2005	2.0	6.06
Relative Percent Difference (RPD)									3.0
Laboratory Quality Assurance Samples									
Reporting Limit						EPA 1631e			0.50
Method Detection Limit						EPA 1631e			0.20
Certified Reference Materials									
DORM2 # K-24		Albion Env.	NRCC CRM	Tissue	Total Rec.	EPA 1631e	8/17/2005	463761	4670000
Certified Value									4640000
Percent Recovery (% R)									101

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec. Aqueous Mercury Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-001)

AE ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Dil. Fac.	Hg (ng/L)
TMA-989		Albion Env.	EPA Ref. Std.	Water	Total Rec.	EPA 1631e	8/17/2005	20220	204000
Certified Value									202000
% R									101
DORM2 # K-24-1		Albion Env.	NRCC CRM	Tissue	Total Rec.	EPA 1631e	11/6/2005	463761	4960000
Certified Value									4640000
% R									107
TMA-989		Albion Env.	EPA Ref. Std.	Water	Total Rec.	EPA 1631e	11/6/2005	20220	201000
Certified Value									202000
% R									100
DORM2 # K-24-2		Albion Env.	NRCC CRM	Tissue	Total Rec.	EPA 1631e	11/6/2005	463761	4690000
Certified Value									4640000
% R									101
Laboratory Duplicates									
HH-3620	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	10.9
HH-3620-LDUP	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	10.7
RPD									1.9
HH-4756	10/18/2005 0815	Reference Site (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	4.32
HH-4756-LDUP	10/18/2005 0815	Reference Site (Site # 1)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1631e	11/6/2005	1.0	4.49
RPD									3.9
Matrix Spike									
HH-3620	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	10.9
HH-3620-MS	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Matrix Spike	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	35.4
HH-3620-MSD	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	MS Duplicate	Surface Water	Total Rec.	EPA 1631e	8/17/2005	5.0	35.5
Expected Increase									25.0
%R MS									98
%R MSD									98
RPD MS/MSD									0.3
Blank Spikes									
LCS-1		Albion Env.	Blank Spike	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	2.22
Expected									2.22
% R									100

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec. Aqueous Mercury Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-001)

AE ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Dil. Fac.	Hg (ng/L)
QCS5 NIST-1		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	4.74
Expected Value									5.00
% R									95
QCS5 B-107		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	5.02
Expected Value									5.00
% R									100
LCS-1		Albion Env.	Blank Spike	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	5.06
Expected									5.00
% R									101
QCS5 NIST-1		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	4.87
Expected Value									5.00
% R									97
QCS5 B-114		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	4.85
Expected Value									5.00
% R									97
Percent Recovery at Reporting Limit (ML, Low Calibration Standard)									
CalStd-1		Albion Env.	Low Calib. Std.	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	0.497
Reporting Limit (ML)									0.500
% R									99
CalStd-1		Albion Env.	Low Calib. Std.	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	0.496
Reporting Limit (ML)									0.500
% R									99
Method Blanks									
M-BLK-3		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	< 0.20
M-BLK-10		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	< 0.20
M-BLK-16		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	8/17/2005	1.0	< 0.20
M-BLK-4		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	< 0.20
M-BLK-5		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	< 0.20
M-BLK-6		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	11/6/2005	1.0	< 0.20

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Dissolved Aqueous Trace Metals Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-003)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Ag	Cd	Cr	Cu	Ni	Pb	Zn	Comments	
Field Samples (Note 1)																
Event # 1 (9-10 August 2005)																
HH-3625	8/9/2005 0815	Coffee Creek (Upstream # 1)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	< 0.10	1.30	< 0.30	1.17	< 0.10	1.54		
HH-3629	8/9/2005 1130	Coffee Creek (Downstream # 2)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	0.48	6.64	4.01	6.70	2.15	88.1		
HH-3633	8/9/2005 1420	Mossy Lake (# 3)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	0.22	5.10	2.28	5.01	1.26	41.8		
HH-3641	8/10/2005 1015	Ouachita Upstream (# 5)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	< 0.10	< 1.0	0.60	< 1.0	< 0.10	< 0.50		
HH-3637	8/10/2005 0930	Ouachita River (Downstream # 4)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	< 0.10	< 1.0	0.63	< 1.0	< 0.10	0.99		
Event # 2 (18-19 October 2005)																
HH-4761	10/18/2005 0815	Reference Site (# 1)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	< 0.10	1.71	< 0.30	1.38	< 0.10	1.33	Note 2	
HH-4765	10/18/2005 0950	Coffee Creek (# 2)	Manual Grab	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	0.482	7.85	4.17	9.28	2.18	153		
HH-4773	10/18/2005 1125	Mossy Lake (# 3)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	0.332	7.37	2.78	7.82	1.49	96.0		
HH-4781	10/19/2005 0933	Ouachita Upstream (# 5)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	< 0.10	< 1.0	0.68	0.69	0.105	0.56	Note 2	
HH-4777	10/19/2005 0920	Ouachita River (Downstream # 4)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	< 0.10	< 1.0	0.74	< 1.0	0.157	4.04	Note 2	
Notes:																
1. All dissolved trace metal concentrations are in units of micrograms per liter (= parts per billion).																
2. Zinc (Zn) was detected in the event # 2 field blank (2.3 ppb) at well above the method reporting limit of 0.50 ppb. The field blank Zn concentration was confirmed by duplicate analyses. EPA guidance states that any associated sample with a Zn concentration less than five times the level observed in the appropriate field blank "may not be reported for regulatory compliance purposes". However, a comparison of the event # 1 and # 2 data suggests that the Zn concentrations in affected samples (i.e. HH-4761, HH-4777, HH-4781) were not significantly affected by the Zn contamination indicated in the field blank. Specifically, Zn levels in samples HH-4761 and HH-4781 are less than the field blank and essentially identical to those observed at the same sites for event # 1 which exhibited no field blank contamination for Zn. The Zn concentration in HH-4777 is higher for event # 2 but this difference coincides with the significantly higher Zn levels observed in the upstream (source) samples for event # 2 (HH-4765, HH-4773). In my judgement, the event # 2 Zn data are not significantly biased by the potential Zn contamination and are usable for the purposes of this study.																
3. Percent recovery (% R) of silver (Ag) in the matrix spike and matrix spike duplicates is below the EPA method 1638 acceptance criteria of 74%. The % R of the ongoing precision and recovery standard run before and after the matrix spikes were acceptable indicating that the reduced recovery is caused by a sample specific matrix interference. Re-preparing HH-4765 and re-analyzing the MS/MSD at a sample dilution factor of 2 did not substantially improve the % R. An MS/MSD was performed on a second sample (HH-4777). The % R was higher but still not acceptable. An MS/MSD performed on a sample from the same site as HH-4777 from the proof of concept event in July 2005 yielded an acceptable % R of 91% and 93% (see data report H1120-9457-001). However, comparing trace metal concentrations among the three sampling events suggests that the July 2005 sample matrix may not be comparable to events # 2 and # 3. The most likely cause of the matrix interference for Ag is the apparent elevated dissolved and particulate organic matter in the sample matrices (especially HH-4765). EPA method guidance states that because of the low MS/MSD % R, the Ag data for the unspiked sample is suspect and may not be reported for regulatory compliance purposes. In my judgement, because of the low dissolved Ag concentrations in the sample, the data bias caused by matrix interference does not result in an overly large underestimation of the true Ag concentration present in the sample. The Ag data may still be usable for the purposes of the study.																
Field Quality Assurance (QA) Samples																
Equipment Blanks																
HH-1503	4/13/2005	Albion Env.	Bottle Blank (LDPE 60)	DIW	Diss.	EPA 1638/200.8	4/14/2005	< 0.050	< 0.50	< 0.50	< 0.50	< 0.050	< 0.50	< 0.10		
HH-4116	9/8/2005	Albion Env.	Bottle Blank (LDPE 60)	DIW	Diss.	EPA 1638/200.8	9/8/2005	< 0.050	< 0.50	< 0.50	< 0.50	< 0.050	< 0.50	< 0.10		
HH-2544	6/8/2005	Albion Env.	Sampler Blank	DIW	Diss.	EPA 1638/200.8	6/16/2005	< 0.050	< 0.50	< 0.50	< 0.50	< 0.050	< 0.50	< 0.10		
HH-3886	8/30/2005	Albion Env.	Sampler Blank	DIW	Diss.	EPA 1638/200.8	9/8/2005	< 0.050	< 0.50	< 0.50	< 0.50	< 0.050	< 0.50	< 0.10		
Field Blanks																
HH-3624	8/9/2005 0815	Coffee Creek (Upstream # 1)	Syringe Field Blank	DIW	Diss.	EPA 1638/200.8	8/15/2005	< 0.10	< 0.10	< 1.0	< 0.30	< 1.0	< 0.10	< 0.50		
HH-4760	10/18/2005 0815	Reference Site (Site # 1)	Syringe Field Blank	DIW	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	< 0.10	< 1.0	< 0.30	< 1.0	< 0.10	2.30	Note 2	
Field Duplicate																
HH-4765	10/18/2005 0950	Coffee Creek (# 2)	Manual Grab	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	0.482	7.85	4.17	9.28	2.18	153		
HH-4766	10/18/2005 0950	Coffee Creek (# 2)	Manual FDUP	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	0.485	7.70	4.10	9.32	2.05	150		
Relative Percent Difference (RPD)																
									0.6	1.9	1.7	0.4	6.1	2.0		
Laboratory Quality Assurance Samples																
Reporting Limits																
								EPA 1638/200.8								
Method Detection Limit								EPA 1638/200.8	0.100	0.100	1.0	0.30	1.00	0.100	0.50	
								EPA 1638/200.8	0.050	0.050	0.50	0.10	0.30	0.030	0.20	

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Dissolved Aqueous Trace Metals Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-003)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Ag	Cd	Cr	Cu	Ni	Pb	Zn	Comments
% R MSD								57	83	86	81	103	84	100	
RPD								0.3	0.2	0.6	0.1	0.7	0.1	0.0	
HH-4777	10/19/2005 0920	Ouachita River (Downstream # 4)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	< 0.10	< 0.10	< 1.0	0.742	< 1.0	0.157	4.04	
HH-4777-MS	10/19/2005 0920	Ouachita River (Downstream # 4)	Matrix Spike	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	1.43	2.17	2.73	2.84	3.10	2.26	6.52	Note 3
HH-4777-MSD	10/19/2005 0920	Ouachita River (Downstream # 4)	MS Duplicate	Surface Water	Diss.	EPA 1638/200.8	10/25/2005	1.40	2.16	2.59	2.81	3.03	2.20	6.49	Note 3
Expected Increase								2.00	2.00	2.00	2.00	2.00	2.00	2.00	
%R MS								72	108	102	105	106	105	124	
% R MSD								70	108	95	103	103	102	123	
RPD								2.1	0.5	5.3	1.1	2.3	2.7	0.5	
Blank Spikes															
LCS-1		Albion Env.	Blank Spike	DIW	Diss.	EPA 1638/200.8	8/15/2005	5.07	5.19	5.31	5.13	5.17	5.16	5.11	
Expected								4.98	4.98	4.98	4.98	4.98	4.98	4.98	
%R								102	104	107	103	103	104	104	
LCS-1		Albion Env.	Blank Spike	DIW	Diss.	EPA 1638/200.8	10/25/2005	1.98	2.06	2.09	2.08	2.08	2.09	2.14	
Expected								2.00	2.00	2.00	2.00	2.00	2.00	2.00	
%R								99	103	105	104	104	105	107	
Percent Recovery at or below Method Reporting Limit															
Cal-Std-1		Albion Env.	Calib. Std.	DIW	Diss.	EPA 1638/200.8	8/15/2005	0.051	0.100	0.46	0.21	0.51	0.0484	0.50	
Expected								0.050	0.100	0.50	0.20	0.50	0.0500	0.50	
%R								102	100	92	106	102	97	101	
Cal-Std-1		Albion Env.	Calib. Std.	DIW	Diss.	EPA 1638/200.8	10/25/2005	0.051	0.096	0.50	0.20	0.46	0.05	0.52	
Expected								0.050	0.100	0.50	0.20	0.50	0.05	0.50	
%R								102	96	99	100	92	95	105	
Method Blanks															
HH-3013		Albion Env.	Method Blank	DIW	Diss.	EPA 1638/200.8	8/15/2005	< 0.050	< 0.50	< 0.50	< 0.10	< 0.30	< 0.050	< 0.20	
HH-4797		Albion Env.	Method Blank	DIW	Diss.	EPA 1638/200.8	10/25/2005	< 0.050	< 0.50	< 0.50	< 0.10	< 0.30	< 0.050	< 0.20	

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec.Aqueous Selenium Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
Field Samples (Notes 1, 2)								
Event # 1 (9-10 August 2005)								
HH-3623	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	8/26/2005	0.152
HH-3628	8/9/2005 1130	Coffee Creek (Downstream, Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	8/26/2005	0.524
HH-3632	8/9/2005 1420	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	8/26/2005	0.397
HH-3640	8/10/2005 1015	Ouachita River (Upstream, Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	8/26/2005	0.138
HH-3636	8/10/2005 0930	Ouachita River (Downstream, Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	8/26/2005	0.165
Event # 2 (18-19 October 2005)								
HH-4759	10/18/2005 0815	Reference Site (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	< 0.10
HH-4763	10/18/2005 0950	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.441
HH-4772	10/18/2005 1125	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.419
HH-4780	10/19/2005 0933	Ouachita Upstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.120
HH-4776	10/19/2005 0920	Ouachita Downstream (Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.127
Notes:								
1. Total recoverable selenium (Se) concentration units are micrograms per liter (parts per billion).								
2. Total recoverable Se samples from the proof of concept sampling event (6-7 July 2005) were not analyzed at the sponsor's request.								
Field Quality Assurance (QA) Samples								
Equipment Blanks								
HH-4144	9/14/2005	Albion	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	9/23/2005	< 0.50
HH-0996	(125 ml)	Albion	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	2/24/2005	< 0.50
Field Blanks								
HH-3621	8/9/2005 0815	Coffee Creek (Upstream, Site # 1)	Pour Field Blank	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	< 0.10
HH-4757	10/18/2005 0815	Reference Site (Site # 1)	Pour Field Blank	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	< 0.10
Field Duplicate								
HH-4763	10/18/2005 0950	Coffee Creek (Site # 2)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.441
HH-4764	10/18/2005 0950	Coffee Creek (Site # 2)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.406
Relative Percent Difference (RPD)								8.3

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec.Aqueous Selenium Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
Laboratory Quality Assurance Samples								
Reporting Limit						EPA 1632 (mod)		0.100
Method Detection Limit						EPA 1632 (mod)		0.050
Certified Reference Materials								
NIST-1640-4		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	22.6
Certified Value								22.0
Percent Recovery (%R)								103
NIST-1640-35		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	22.6
Certified Value								22.0
% R								103
NIST-1643E-51		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	11.0
Certified Value								12.0
% R								92
Laboratory Duplicate								
HH-4776	10/19/2005 0920	Ouachita Downstream (Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.127
HH-4776-LDUP	10/19/2005 0920	Ouachita Downstream (Site # 4)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.157
RPD								21
Matrix Spike								
HH-4780	10/19/2005 0933	Ouachita Upstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.120
HH-4780-MS	10/19/2005 0933	Ouachita Upstream (Site # 5)	Matrix Spike	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.865
HH-4780-MSD	10/19/2005 0933	Ouachita Upstream (Site # 5)	MS Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	11/11/2005	0.878
Expected Increase								0.796
%R MS								94
% R MSD								95
RPD								1.5
Blank Spikes								
BS-22		Albion Env.	Digestion Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	0.98
Expected								1.04
%R								95

EPA/ UA/ Parsons Ouachita TMDL Study
 Final Total Rec.Aqueous Selenium Data for Events # 1 Re-sample (Coll. 9-10 Aug. 2005) & # 2 (Coll. 18-19 October 2005)
 (Data Report H1123-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
LCS-1		Albion Env.	Bench Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	0.63
Expected								0.66
%R								95
ICV-23		Albion Env.	Ind. Check Std.	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	0.99
Expected								1.00
%R								99
BS-32		Albion Env.	Digestion Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	1.05
Expected								1.04
%R								101
LCS-1		Albion Env.	Bench Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	0.534
Expected								0.531
%R								101
ICV-47		Albion Env.	Ind. Check Std.	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	1.08
Expected								1.04
%R								104
Percent Recovery at or below Method Reporting Limit								
STD-0.1		Albion Env.	Cal. Std.	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	0.092
Expected								0.100
%R								92
STD-0.1		Albion Env.	Cal. Std.	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	0.102
Expected								0.100
%R								102
Method Blanks								
M-BLK-24		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1632 (mod)	8/26/2005	< 0.10
M-BLK-52		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1632 (mod)	11/11/2005	< 0.10



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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPARENT COLOR.

Sample From: MOSSY LAKE / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	700.000 units	2120 C
Apparent color	1306.000 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ERIC CUMMINGS on 08/09/05 at 15:00

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

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SUITE 200
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AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.001

KAC Reviewed By: K. E. Sorrells, M.S. [] *[Signature]*



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QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPARENT COLOR.

Sample From: COFFEE CREEK / UP / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	49.400 units	2120 C
Apparent color	227.100 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ERIC CUMMINGS on 08/09/05 at 8:30

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

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FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.002

KAC Reviewed By: K. E. Sorrells, M.S. []



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QUALITY ASSURANCE

August 10, 2005

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ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

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Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS

10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPARENT COLOR.

Sample From: COFFEE CREEK / DOWN / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	853.000 units	2120 C
Apparent color	1483.000 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ERIC CUMMINGS on 08/09/05 at 18:00

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

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FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.003

KAC Reviewed By: K. E. Sorrells, M.S. []



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August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

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Laboratory Number: 6070.003 KAC



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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPARENT COLOR.

Sample From: OUACHITA RIVER / UP / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	21.900 units	2120 C
Apparent color	58.700 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ERIC CUMMINGS on 08/10/05 at 8:33

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

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10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.004

KAC Reviewed By: K. E. Sorrells, M.S. []



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Fax 501-562-7025
Toll Free 1-800-331-8139

QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-
Job: WATER QUALITY ANALYSIS FOR E. COLI.
Sample From: OUACHITA RIVER / UP / 2-16

ANALYTE	RESULT	UNITS	METHOD
E. Coli Bacteria	90.000	#/100ml	9223 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:
ERIC CUMMINGS on 08/10/05 at 8:33
Analysis by :
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

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FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.005

KAC Reviewed By: K. E. Sorrells, M.S. []



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Fax 501-562-7025
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QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
E. Coli Bacteria	TJS	08/10/05	1300	08/13/05	1500	0.00	0.0	4

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
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Laboratory Number: 6070.005 KAC



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Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
Toll Free 1-800-331-8139

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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPEARANT COLOR.

Sample From: OUACHITA RIVER / DOWN / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	38.600 units	2120 C
Apparent color	85.200 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:
ERIC CUMMINGS on 08/10/05 at 8:22
Analysis by :
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

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FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.006

KAC Reviewed By: K. E. Sorrells, M.S. []



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CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS

Phone 501-562-8139
Fax 501-562-7025
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QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
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Laboratory Number: 6070.006 KAC



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LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-
Job: WATER QUALITY ANALYSIS FOR E. COLI.
Sample From: OUACHITA RIVER / DOWN / 2-16

ANALYTE	RESULT UNITS	METHOD
E. Coli Bacteria	68.000 #/100ml	9223 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:
ERIC CUMMINGS on 08/10/05 at 8:22
Analysis by :
SEE ATTACHED QUALITY ASSURANCE PAGE.

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SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.007

KAC Reviewed By: K. E. Sorrells, M.S. []



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QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
E. Coli Bacteria	TJS	08/10/05	1300	08/13/05	1500	0.00	0.0	4

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
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Laboratory Number: 6070.007 KAC



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CHEMISTS
ECOLOGISTS
CONSULTANTS
PLANNERS

LABORATORY ANALYSIS

Date of Report: August 17, 2005
Date Received : August 10, 2005

For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

Job: WATER QUALITY ANALYSIS FOR TRUE & APPEARANT COLOR.

Sample From: FIELD DUPLICATE / 2-15

ANALYTE	RESULT UNITS	METHOD
True color	25.400 units	2120 C
Apparent color	94.600 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ERIC CUMMINGS on 08/10/05 at 8:22

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

Copies to:

MRS. LAUREN FILLMORE

MR. STEPHEN MANNING

10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-

SUITE 200
8000 CENTRE PARK DRIVE
AUSTIN, TX 78754-

MS. CORNELIA SCOTT

10521 ROSEHAVEN ST.
FAIRFAX, VA 22030-

Laboratory Number: 6070.008

KAC Reviewed By: K. E. Sorrells, M.S. []



**SORRELLS RESEARCH
LABORATORY AND FIELD SERVICES**



8002 Stanton Road
Little Rock, Arkansas 72209

Phone 501-562-8139
Fax 501-562-7025
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QUALITY ASSURANCE

August 10, 2005

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7
True color	TJS	08/11/05	900	08/11/05	1100	0.00	0.0	7

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up
Sample preservation and laboratory analysis conducted according to EPA
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.* QA PLAN filed with
ADPC&E. Include replication.

KES = K. E. Sorrells
JBS = James B. Sorrells
CAS = Cecil A. Sorrells
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II
TJS = Todd J. Sanders
JHD = J. Henry Dodson

Laboratory Number: 6070.008 KAC



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LABORATORY ANALYSIS

Date of Report: August 17, 2005
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For: PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-
Job: WATER QUALITY ANALYSIS FOR E. COLI.
Sample From: FIELD DUPLICATE / 2-16

ANALYTE	RESULT	UNITS	METHOD
E. Coli Bacteria	109.000	#/100ml	9223 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:
ERIC CUMMINGS on 08/10/05 at 8:22
Analysis by :
SEE ATTACHED QUALITY ASSURANCE PAGE.

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E. Coli Bacteria	TJS	08/10/05	1300	08/13/05	1500	0.00	0.0	4

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10521 ROSEHAVEN STREET
FAIRFAX, VA 22030-
Job: WATER QUALITY ANALYSIS FOR TRUE & APPEARANT COLOR.
Sample From: FIELD BLANK / 2-15

ANALYTE		RESULT UNITS	METHOD
True color	<	1.000 units	2120 C
Apparent color	<	1.000 units	2120 C

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:
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ANALYTE	RESULT	UNITS	METHOD
E. Coli Bacteria	<	1.000 #/100ml	9223 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

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