

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)--05/16/06- 05/17/06  
Contact ----- Jessica Franks (6WQ-EW)  
Report Date ----- 07/20/06  
Project # ----- 06CWA182  
Work Order(s) ----- 0605012  
0605014

**Analyses included in this report:**

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ABN WQ Low 8270	ABN WQ PCBs by 680
Biology Ceriodaphnia Chronic	Biology Pimephales Chronic
Biology Wet Chemistry	Metals ICP 6010B
Metals ICP-MS 6020	Metals Mercury 7470A/7471A
P/P WQ 8081A	P/P WQ 8141A
P/P WQ PCB 8082	P/P WQ Tox/Chlor
Solids, Dry Weight	

**Report Narrative**

Sample Management:

Sample 0605014-01 (Ouachita DN): One 1 - liter amber glass container was received broken.

Sample 0605014-05 (Ouachita UP): The time of collection on the container for chronic toxicity was 10:30 while the chain of custody listed 10:40. The COC was used for LIMS login.

The COCs received with samples in work order 0605014 were signed and dated to relinquish custody of the samples; however, the time of relinquishment was not entered on the COC.

Method 680:

The solid BS was slightly below the recovery limit. No PCBs were detected in the samples.

Method 8082:

Aroclor 1254 is qualified as estimated with a tentative identification on sample 0605012-08 because of differing concentrations on the two columns and difficulty in pattern matching.

## **Report Narrative (cont'd)**

Method 8270:

Benzoic acid, where reported in samples, is qualified as blank related (due to its presence in the preparation blank) and estimated (due to chromatography problems).

The following five analytes were marked as rejected in the solid samples in WO 0605012 because these compounds had little or no recovery in the matrix spikes using 0605012-08 as the source sample (all four samples had very similar chromatograms in this WO): 4-Chloroaniline, 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene, 3-Nitroaniline, and 4-Nitroaniline. These analytes were not qualified as rejected in the solid samples in WO 0605014 because the chromatograms were dissimilar to those in WO 0605012.

Terphenyl-d14 is outside recovery limits on samples 0506012-06 due to suppression of the associated internal standard. No other analytes were quantitated using this internal standard.

The BS had four analytes that recovered low. Of those analytes, only Hexachlorocyclopentadiene has been qualified due to afore mentioned reasons. The other analytes had greater than 50% recovery and were not found in the samples. The non-detects reported for these analytes should, therefore, be accurate. Benzoic acid recovered high in the BS. This compound has already been qualified for other reasons. The MS/MSD pair also had four analytes that exceeded the RPD limit in addition to the compounds that were rejected. None of these analytes were found in the associated samples. RPDs could not be calculated for the five analytes that were rejected for low or no recoveries.

Method 8141:

Atrazine has been qualified as estimated with a tentative identification in samples 0605012-01 and 0605012-05 due to difference in concentration on the two columns as well as non-symmetrical peak shape on the column that was reported.

The surrogate Tributylphosphate failed low in 0605012-01 and high in 0605014-01. Atrazine reported in sample 0605012-01 has already been qualified. No bias was placed on Atrazine reported in sample 0605014-01 because the surrogate failure was marginal.

In the liquid MS, Diazinon and Carbofuran fail low. The recoveries in the MSD were acceptable. The RPDs failed due to the difference in recoveries between the two. In the solid BS, MS and MSD, Diazinon and Molinate fail low. These analytes were not found in the associated samples. Also, these failures were not significant enough to warrant raising reporting limits. The non-detects that were reported should be accurate.

Method 8081:

Reporting limits were raised for some compounds on several samples because absence or presence at the lower RL could not be verified.

Liquid samples: The BS had one high recovery. The MS had four low recoveries. The MSD had no recoveries outside limits. Four RPDs failed due to difference in concentration. None of these analytes were found in the samples. All analytes with low recoveries were greater than 50%. The

## **Report Narrative (cont'd)**

non-detects reported for these analytes should, therefore, be accurate.

Solid samples: Samples were re-extracted because initial extraction had significant recovery problems in the QC due to incorrect GPC windows being used. Re-extractions were performed outside holding time.

Methoxychlor has been qualified as rejected on all soil samples due to the loss of this compound in ending calibration checks. Analysis of original extracts showed the same losses on ending checks. DDT also disappeared in ending checks but non-detects were confirmed by analysis of acid cleaned extracts used for PCB analysis. The acid cleaned extracts showed greater than 130% recovery in the BS, MS and MSD for DDT on original extraction. Methoxychlor and DDT recovered in the QC reported with the re-extractions because they were analyzed first in the sequence. The RPD failures show that from analysis of MS to analysis of MSD, at least a 40% loss occurred. Methoxychlor recovered low on the MSD. This is consistent with loss of these compounds on ending checks. It is not known at what point in the sequence Methoxychlor was lost, therefore, all results were qualified. The client has been informed of rejection qualifiers for this analyte. Endrin Ketone also had significant losses on ending checks. The RL was raised to compensate for the losses by a factor of X4.

Trifluralin was low in the BS but acceptable in the MS and MSD.

Biology:

Ceriodaphnia dubia:

After 7 days of exposure, there was significant effect in the Ceriodaphnia test organisms exposed to water samples 0605012-01, 0605012-03, 0605012-05, 0605012-07, 0605014-01, 0605014-04, and eluate samples 0605012-02, 0605012-04, 0605012-06, 0605012-08, 0605014-02, and 0605014-05.

Pimephales promelas:

After 7 days of exposure, there was significant effect in the Pimephales test organisms exposed to water samples 0605012-01, 0605012-03, 0605012-05, 0605014-04, and eluate samples 0605012-02, 0605012-06, and 0605014-02.

Metals ICP:

Prep blank for copper is elevated, results are qualified and may be biased high.

Silver is low in BS1 and is low in the MS1/MSD1. Results are qualified and may be biased low.

Iron and zinc are low in SRM1. Results are qualified and may be biased low.

Sodium and potassium spikes in BS2 are below reporting level. No recovery calculated.

Aluminum, calcium, and iron sample concentrations exceed the spike added concentration by a factor of four or more; recovery determinations can not be reliably calculated.

## **Report Narrative (cont'd)**

Metals ICP-MS:

Antimony spike recovery is low in MS1/MSD1. Results are qualified and may be biased low.

Metals Mercury:

Samples were analyzed past the recommended holding time.

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:

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Richard McMillin  
Region 6 Laboratory Manager

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Douglas A. Lipka  
Region 6 Laboratory Branch Chief



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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**

<b>Station ID</b>	<b>Laboratory ID</b>	<b>Sample Type</b>	<b>Date Collected</b>	<b>Date Received</b>
Coffee Creek 5	0605012-01	Liquid	5/16/06 9:40	05/17/06 09:15
Coffee Creek 5	0605012-02	Solid	5/16/06 9:55	05/17/06 09:15
Field Duplicate 5	0605012-03	Liquid	5/16/06 8:00	05/17/06 09:15
Field Duplicate 5	0605012-04	Solid	5/16/06 8:30	05/17/06 09:15
Mossy Lake 5	0605012-05	Liquid	5/16/06 11:35	05/17/06 09:15
Mossy Lake 5	0605012-06	Solid	5/16/06 11:50	05/17/06 09:15
Reference 5	0605012-07	Liquid	5/16/06 7:50	05/17/06 09:15
Reference 5	0605012-08	Solid	5/16/06 8:25	05/17/06 09:15
Ouachita DN 5	0605014-01	Liquid	5/17/06 11:20	05/18/06 09:00
Ouachita DN 5	0605014-02	Solid	5/17/06 11:30	05/18/06 09:00
Field Blank 5	0605014-03	Liquid	5/17/06 8:40	05/18/06 09:00
Ouachita UP 5	0605014-04	Liquid	5/17/06 10:30	05/18/06 09:00
Ouachita UP 5	0605014-05	Solid	5/17/06 10:40	05/18/06 09:00



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605012-01**

**Station ID: Coffee Creek 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1052ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	2.97		62.5	39-117	05/17/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/17/06	05/22/06
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: 0605012-01**

**Station ID: Coffee Creek 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	15.1		31.9	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	37.2		78.5	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.0	1	05/19/06	06/06/06
Aroclor-1221 (11104-28-2)	U		37.9	"	"	"
Aroclor-1232 (11141-16-5)	U		19.0	"	"	"
Aroclor-1242 (53469-21-9)	U		19.0	"	"	"
Aroclor-1248 (12672-29-6)	U		19.0	"	"	"
Aroclor-1254 (11097-69-1)	U		19.0	"	"	"
Aroclor-1260 (11096-82-5)	U		19.0	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-01**

**Station ID: Coffee Creek 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	30.2		63.7	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	32.4		68.4	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.5	1	05/19/06	05/24/06
alpha-BHC (319-84-6)	U		9.5	"	"	"
beta-BHC (319-85-7)	U		9.5	"	"	"
delta-BHC (319-86-8)	U		9.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.5	"	"	"
Cyfluthrin (68359-37-5)	U	RL	19.0	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.9	"	"	"
4,4'-DDD (72-54-8)	U		5.7	"	"	"
4,4'-DDE (72-55-9)	U		9.5	"	"	"
4,4'-DDT (50-29-3)	U		0.9	"	"	"
Dieldrin (60-57-1)	U		9.5	"	"	"
Endosulfan I (959-98-8)	U		9.5	"	"	"
Endosulfan II (33213-65-9)	U		9.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.5	"	"	"
Endrin (72-20-8)	U		9.5	"	"	"
Endrin aldehyde (7421-93-4)	U		9.5	"	"	"
Endrin ketone (53494-70-5)	U		9.5	"	"	"
Esfenvalerate (66230-04-4)	U		9.5	"	"	"
Heptachlor (76-44-8)	U		2.8	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.5	"	"	"
Methoxychlor (72-43-5)	U		9.5	"	"	"
Pendimethalin (40487-42-1)	U		474	"	"	"
Trifluralin (1582-09-8)	U		47.4	"	"	"



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

**Lab ID: 0605012-01**

**Station ID: Coffee Creek 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.5	1	05/19/06	05/24/06
Toxaphene (8001-35-2)	U		56.9	"	"	"



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

**Lab ID: 0605012-01**

**Station ID: Coffee Creek 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1052ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	378		79.6	53-128	05/17/06	06/01/06
<i>Surr: Tributyl phosphate</i>	219		46.1 #	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>15.4</b>	<b>NJ</b>	9.5	1	05/17/06	06/01/06
Diazinon (333-41-5)	U		9.5	"	"	"
Methyl parathion (298-00-0)	U		9.5	"	"	"
Molinate (2212-67-1)	U		95.1	"	"	"
Carbofuran (1563-66-2)	U		9.5	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.026g

Sample Qualifiers:

%Solids: 49.39

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	270		53.4	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	312		61.7	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	305		60.3	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	146		43.3	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	214		63.5	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	225		66.8	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	503		99.4	29-125	"	"
<i>Surr: Terphenyl-d14</i>	357		106	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		67.4	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		67.4	"	"	"
Acetophenone (98-86-2)	U		270	"	"	"
<b>Anthracene (120-12-7)</b>	<b>976</b>		67.4	"	"	"
Atrazine (1912-24-9)	U		270	"	"	"
Benzaldehyde (100-52-7)	U		270	"	"	"
<b>Benzoic acid (65-85-0)</b>	<b>546</b>	<b>J, B</b>	270	"	"	"
Benzo (a) anthracene (56-55-3)	U		67.4	"	"	"
Benzo (a) pyrene (50-32-8)	U		67.4	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		67.4	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		67.4	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		67.4	"	"	"
Benzyl alcohol (100-51-6)	U		135	"	"	"
1,1'-Biphenyl (92-52-4)	U		270	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		270	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		270	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		270	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		135	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		270	"	"	"
Butyl benzyl phthalate (85-68-7)	U		135	"	"	"
Carbazole (86-74-8)	U		270	"	"	"
Caprolactam (105-60-2)	U		270	"	"	"
4-Chloroaniline (106-47-8)	U	<b>R</b>	270	"	"	"
2-Chloronaphthalene (91-58-7)	U		270	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.026g

Sample Qualifiers:

%Solids: 49.39

**Targets (Continued)**

Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		270	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		270	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		270	"	"	"
Chrysene (218-01-9)	U		67.4	"	"	"
Dibenzofuran (132-64-9)	U		270	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		67.4	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		67.4	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		67.4	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		67.4	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U	R	270	"	"	"
2,4-Dichlorophenol (120-83-2)	U		270	"	"	"
Diethyl phthalate (84-66-2)	U		135	"	"	"
2,4-Dimethylphenol (105-67-9)	U		67.4	"	"	"
Dimethyl phthalate (131-11-3)	U		135	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,350	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		270	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		270	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,350	"	"	"
Di-n-butyl phthalate (84-74-2)	U		135	"	"	"
Di-n-octyl phthalate (117-84-0)	U		135	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		27.0	"	"	"
<b>Fluoranthene (206-44-0)</b>	<b>76.9</b>		67.4	"	"	"
Fluorene (86-73-7)	U		67.4	"	"	"
Hexachlorobenzene (118-74-1)	U		27.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		67.4	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	270	"	"	"
Hexachloroethane (67-72-1)	U		270	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		67.4	"	"	"
Isophorone (78-59-1)	U		67.4	"	"	"
2-Methylnaphthalene (91-57-6)	U		67.4	"	"	"
2-Methylphenol (95-48-7)	U		135	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		270	"	"	"
Naphthalene (91-20-3)	U		67.4	"	"	"
2-Nitroaniline (88-74-4)	U		539	"	"	"
3-Nitroaniline (99-09-2)	U	R	539	"	"	"
4-Nitroaniline (100-01-6)	U	R	539	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.026g

Sample Qualifiers:

%Solids: 49.39

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		270	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		270	"	"	"
4-Nitrophenol (100-02-7)	U		809	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		67.4	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		270	"	"	"
Pentachlorophenol (87-86-5)	U		270	"	"	"
<b>Phenanthrene (85-01-8)</b>	<b>98.5</b>		67.4	"	"	"
Phenol (108-95-2)	U		270	"	"	"
<b>Pyrene (129-00-0)</b>	<b>87.7</b>		67.4	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		270	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		27.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		270	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.026g

Sample Qualifiers:

%Solids: 49.39

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecenoic acid, Z-11- (2416-20-8)	<b>7,400</b>		11.62	2	05/24/06	06/06/06
n-Hexadecanoic acid (57-10-3)	<b>5,300</b>		11.73	"	"	"
Unknown carboxylic acid@11.73 (NA)	<b>5,300</b>		11.73	"	"	"
Unknown carboxylic acid@11.84 (NA)	<b>4,900</b>		11.84	"	"	"
1,1'-Biphenyl, bis(1-methylethyl)- (69009-90-1)	<b>4,500</b>		12.48	"	"	"
9-Octadecenoic acid isomer (NA)	<b>17,000</b>		12.57	"	"	"
Octadecanoic acid (57-11-4)	<b>4,300</b>		12.63	"	"	"
Unknown@13.62 (NA)	<b>6,700</b>		13.62	"	"	"
C20H28O2 isomer (NA)	<b>5,700</b>		13.77	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>6,900</b>		17.19	"	"	"

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: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.026g

Sample Qualifiers:

%Solids: 49.39

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	247		73.3	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		13.5	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		13.5	"	"	"
Trichlorobiphenyls (NA)	U		13.5	"	"	"
Tetrachlorobiphenyls (NA)	U		27.0	"	"	"
Pentachlorobiphenyls (NA)	U		27.0	"	"	"
Hexachlorobiphenyls (NA)	U		27.0	"	"	"
Heptachlorobiphenyls (NA)	U		40.4	"	"	"
Octachlorobiphenyls (NA)	U		40.4	"	"	"
Nonachlorobiphenyls (NA)	U		53.8	"	"	"
Decachlorobiphenyls (NA)	U		67.4	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.779g

Sample Qualifiers:

%Solids: 49.39

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	12.7		77.4	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	14.0		85.4	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		6.6	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		13.2	"	"	"
Aroclor-1232 (11141-16-5)	U		6.6	"	"	"
Aroclor-1242 (53469-21-9)	U		6.6	"	"	"
Aroclor-1248 (12672-29-6)	U		6.6	"	"	"
Aroclor-1254 (11097-69-1)	U		6.6	"	"	"
Aroclor-1260 (11096-82-5)	U		6.6	"	"	"



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

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.779g

Sample Qualifiers:

%Solids: 49.39

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		3.3	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		19.7	"	"	"



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

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.779g

Sample Qualifiers:

%Solids: 49.39

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	97.9		59.7	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	182		111	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		3.3	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		3.3	"	"	"
Methyl parathion (298-00-0)	U		3.3	"	"	"
Molinate (2212-67-1)	U		32.9	"	"	"
Carbofuran (1563-66-2)	U		3.3	"	"	"



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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.514g  
 %Solids: 49.39

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>2,340</b>		19.7	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		19.7	"	"	"
<b>Barium (7440-39-3)</b>	<b>106</b>		2.0	"	"	"
Beryllium (7440-41-7)	U		1.0	"	"	"
<b>Cadmium (7440-43-9)</b>	<b>1.0</b>		1.0	"	"	"
<b>Calcium (7440-70-2)</b>	<b>6,160</b>		29.5	"	"	"
<b>Chromium (7440-47-3)</b>	<b>4.7</b>		2.0	"	"	"
Cobalt (7440-48-4)	U		3.9	"	"	"
<b>Copper (7440-50-8)</b>	<b>15.2</b>	<b>B</b>	3.9	"	"	"
<b>Iron (7439-89-6)</b>	<b>2,080</b>	<b>L</b>	4.9	"	"	"
Lead (7439-92-1)	U		5.9	"	"	"
<b>Magnesium (7439-95-4)</b>	<b>486</b>		29.5	"	"	"
<b>Manganese (7439-96-5)</b>	<b>301</b>		1.0	"	"	"
<b>Nickel (7440-02-2)</b>	<b>4.4</b>		3.9	"	"	"
<b>Potassium (7440-09-7)</b>	<b>234</b>		197	"	"	"
Selenium (7782-49-2)	U		19.7	"	"	"
Silver (7440-22-4)	U	L	2.0	"	"	"
Thallium (7440-28-0)	U		19.7	"	"	"
<b>Sodium (7440-23-5)</b>	<b>617</b>		98.5	"	"	"
<b>Vanadium (7440-62-2)</b>	<b>7.2</b>		5.9	"	"	"
<b>Zinc (7440-66-6)</b>	<b>152</b>	<b>L</b>	3.9	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.118g  
 %Solids: 49.39

Sample Qualifiers: **R6HTS**

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.1	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605012-02**

**Station ID: Coffee Creek 5**

Batch: B6F0805

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 0.514g

Sample Qualifiers:

%Solids: 49.39

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.4	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>0.9</b>		0.4	"	"	"
<b>Lead (7439-92-1)</b>	<b>5.9</b>		0.4	"	"	"
<b>Selenium (7782-49-2)</b>	<b>1.0</b>		0.4	"	"	"
Thallium (7440-28-0)	U		0.4	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-02RE1**

**Station ID: Coffee Creek 5**

Batch: B6F1618

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.164g

Sample Qualifiers: **R6HTS**

%Solids: 49.39

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	7.42		44.2	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	14.2		84.5	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.7	1	06/16/06	06/23/06
alpha-BHC (319-84-6)	U		0.7	"	"	"
beta-BHC (319-85-7)	U		0.7	"	"	"
delta-BHC (319-86-8)	U		0.7	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.7	"	"	"
Cyfluthrin (68359-37-5)	U		0.7	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.7	"	"	"
4,4'-DDD (72-54-8)	U		0.7	"	"	"
4,4'-DDE (72-55-9)	U		0.7	"	"	"
4,4'-DDT (50-29-3)	U		0.7	"	"	"
Dieldrin (60-57-1)	U		0.7	"	"	"
Endosulfan I (959-98-8)	U		0.7	"	"	"
Endosulfan II (33213-65-9)	U		0.7	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.7	"	"	"
Endrin (72-20-8)	U	RL	1.0	"	"	"
Endrin aldehyde (7421-93-4)	U	RL	1.0	"	"	"
Endrin ketone (53494-70-5)	U	RL	2.7	"	"	"
Esfenvalerate (66230-04-4)	U		0.7	"	"	"
Heptachlor (76-44-8)	U		0.7	"	"	"
Heptachlor epoxide (1024-57-3)	U	RL	7.0	"	"	"
Methoxychlor (72-43-5)	U	R	0.7	"	"	"
Pendimethalin (40487-42-1)	U		167	"	"	"
Trifluralin (1582-09-8)	U		16.7	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605012-03**

**Station ID: Field Duplicate 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1042ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.79		79.0	39-117	05/17/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/17/06	05/22/06
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: 0605012-03**

**Station ID: Field Duplicate 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	28.6		60.3	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	51.0		108	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.0	1	05/19/06	06/06/06
Aroclor-1221 (11104-28-2)	U		37.9	"	"	"
Aroclor-1232 (11141-16-5)	U		19.0	"	"	"
Aroclor-1242 (53469-21-9)	U		19.0	"	"	"
Aroclor-1248 (12672-29-6)	U		19.0	"	"	"
Aroclor-1254 (11097-69-1)	U		19.0	"	"	"
Aroclor-1260 (11096-82-5)	U		19.0	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-03**

**Station ID: Field Duplicate 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	22.4		47.3	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	36.5		77.0	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.5	1	05/19/06	05/24/06
alpha-BHC (319-84-6)	U		9.5	"	"	"
beta-BHC (319-85-7)	U		9.5	"	"	"
delta-BHC (319-86-8)	U		9.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.5	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.9	"	"	"
4,4'-DDD (72-54-8)	U		5.7	"	"	"
4,4'-DDE (72-55-9)	U		9.5	"	"	"
4,4'-DDT (50-29-3)	U		0.9	"	"	"
Dieldrin (60-57-1)	U		9.5	"	"	"
Endosulfan I (959-98-8)	U		9.5	"	"	"
Endosulfan II (33213-65-9)	U		9.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.5	"	"	"
Endrin (72-20-8)	U		9.5	"	"	"
Endrin aldehyde (7421-93-4)	U		9.5	"	"	"
Endrin ketone (53494-70-5)	U		9.5	"	"	"
Esfenvalerate (66230-04-4)	U		9.5	"	"	"
Heptachlor (76-44-8)	U		2.8	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.5	"	"	"
Methoxychlor (72-43-5)	U		9.5	"	"	"
Pendimethalin (40487-42-1)	U		474	"	"	"
Trifluralin (1582-09-8)	U		47.4	"	"	"



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

**Lab ID: 0605012-03**

**Station ID: Field Duplicate 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1055ml

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.5	1	05/19/06	05/24/06
Toxaphene (8001-35-2)	U		56.9	"	"	"



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

**Lab ID: 0605012-03**

**Station ID: Field Duplicate 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1042ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	464		96.7	53-128	05/17/06	06/01/06
<i>Surr: Tributyl phosphate</i>	464		96.7	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>19.3</b>		9.6	1	05/17/06	06/01/06
Diazinon (333-41-5)	U		9.6	"	"	"
Methyl parathion (298-00-0)	U		9.6	"	"	"
Molinate (2212-67-1)	U		96.0	"	"	"
Carbofuran (1563-66-2)	U		9.6	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.068g

Sample Qualifiers:

%Solids: 63.81

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	208		53.2	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	241		61.6	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	232		59.3	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	117		44.8	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	145		55.6	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	177		67.8	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	252		64.5	29-125	"	"
<i>Surr: Terphenyl-d14</i>	270		103	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		52.1	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		52.1	"	"	"
Acetophenone (98-86-2)	U		208	"	"	"
Anthracene (120-12-7)	U		52.1	"	"	"
Atrazine (1912-24-9)	U		208	"	"	"
Benzaldehyde (100-52-7)	U		208	"	"	"
<b>Benzoic acid (65-85-0)</b>	<b>402</b>	<b>J, B</b>	208	"	"	"
Benzo (a) anthracene (56-55-3)	U		52.1	"	"	"
Benzo (a) pyrene (50-32-8)	U		52.1	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		52.1	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		52.1	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		52.1	"	"	"
Benzyl alcohol (100-51-6)	U		104	"	"	"
1,1'-Biphenyl (92-52-4)	U		208	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		208	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		208	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		208	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		104	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		208	"	"	"
Butyl benzyl phthalate (85-68-7)	U		104	"	"	"
Carbazole (86-74-8)	U		208	"	"	"
Caprolactam (105-60-2)	U		208	"	"	"
4-Chloroaniline (106-47-8)	U	R	208	"	"	"
2-Chloronaphthalene (91-58-7)	U		208	"	"	"



**Environmental Protection Agency**  
**Region 6 Laboratory**

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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.068g

Sample Qualifiers:

%Solids: 63.81

**Targets (Continued)**

Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		208	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		208	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		208	"	"	"
Chrysene (218-01-9)	U		52.1	"	"	"
Dibenzofuran (132-64-9)	U		208	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		52.1	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		52.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		52.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		52.1	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U	R	208	"	"	"
2,4-Dichlorophenol (120-83-2)	U		208	"	"	"
Diethyl phthalate (84-66-2)	U		104	"	"	"
2,4-Dimethylphenol (105-67-9)	U		52.1	"	"	"
Dimethyl phthalate (131-11-3)	U		104	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,040	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		208	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		208	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,040	"	"	"
Di-n-butyl phthalate (84-74-2)	U		104	"	"	"
Di-n-octyl phthalate (117-84-0)	U		104	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		20.8	"	"	"
Fluoranthene (206-44-0)	U		52.1	"	"	"
Fluorene (86-73-7)	U		52.1	"	"	"
Hexachlorobenzene (118-74-1)	U		20.8	"	"	"
Hexachlorobutadiene (87-68-3)	U		52.1	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	208	"	"	"
Hexachloroethane (67-72-1)	U		208	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		52.1	"	"	"
Isophorone (78-59-1)	U		52.1	"	"	"
2-Methylnaphthalene (91-57-6)	U		52.1	"	"	"
2-Methylphenol (95-48-7)	U		104	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		208	"	"	"
Naphthalene (91-20-3)	U		52.1	"	"	"
2-Nitroaniline (88-74-4)	U		417	"	"	"
3-Nitroaniline (99-09-2)	U	R	417	"	"	"
4-Nitroaniline (100-01-6)	U	R	417	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.068g

Sample Qualifiers:

%Solids: 63.81

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		208	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		208	"	"	"
4-Nitrophenol (100-02-7)	U		625	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		52.1	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		208	"	"	"
Pentachlorophenol (87-86-5)	U		208	"	"	"
Phenanthrene (85-01-8)	U		52.1	"	"	"
Phenol (108-95-2)	U		208	"	"	"
Pyrene (129-00-0)	U		52.1	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		20.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		208	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		208	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.068g

Sample Qualifiers:

%Solids: 63.81

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecenoic acid, Z-11- (2416-20-8)	<b>1,700</b>		11.58	2	05/24/06	06/06/06
Unknown@13.59 (NA)	<b>1,500</b>		13.59	"	"	"
Unknown@13.70 (NA)	<b>3,800</b>		13.70	"	"	"
Heptacosane (593-49-7)	<b>1,400</b>		14.33	"	"	"
Nonacosane (630-03-5)	<b>3,100</b>		14.93	"	"	"
Hentriacontane (630-04-6)	<b>2,400</b>		15.66	"	"	"
Unknown straight chain paraffin (NA)	<b>1,500</b>		16.62	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>4,000</b>		17.16	"	"	"
C30H52O isomer (NA)	<b>2,300</b>		18.71	"	"	"
Friedelin (559-74-0)	<b>3,200</b>		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.



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.068g

Sample Qualifiers:

%Solids: 63.81

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	175		67.0	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		10.4	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		10.4	"	"	"
Trichlorobiphenyls (NA)	U		10.4	"	"	"
Tetrachlorobiphenyls (NA)	U		20.9	"	"	"
Pentachlorobiphenyls (NA)	U		20.9	"	"	"
Hexachlorobiphenyls (NA)	U		20.9	"	"	"
Heptachlorobiphenyls (NA)	U		31.2	"	"	"
Octachlorobiphenyls (NA)	U		31.2	"	"	"
Nonachlorobiphenyls (NA)	U		41.6	"	"	"
Decachlorobiphenyls (NA)	U		52.1	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.584g

Sample Qualifiers:

%Solids: 63.81

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	11.2		87.5	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	11.9		93.0	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		5.1	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		10.2	"	"	"
Aroclor-1232 (11141-16-5)	U		5.1	"	"	"
Aroclor-1242 (53469-21-9)	U		5.1	"	"	"
Aroclor-1248 (12672-29-6)	U		5.1	"	"	"
<b>Aroclor-1254 (11097-69-1)</b>	<b>17.2</b>		5.1	"	"	06/08/06
<b>Aroclor-1260 (11096-82-5)</b>	<b>26.1</b>		5.1	"	"	06/06/06



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

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.584g

Sample Qualifiers:

%Solids: 63.81

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.6	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		15.4	"	"	"



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

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.584g

Sample Qualifiers:

%Solids: 63.81

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	92.6		72.3	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	154		120	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		2.6	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		2.6	"	"	"
Methyl parathion (298-00-0)	U		2.6	"	"	"
Molinate (2212-67-1)	U		25.6	"	"	"
Carbofuran (1563-66-2)	U		2.6	"	"	"



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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.511g  
 %Solids: 63.81

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>3,260</b>		15.3	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		15.3	"	"	"
<b>Barium (7440-39-3)</b>	<b>88.2</b>		1.5	"	"	"
Beryllium (7440-41-7)	U		0.8	"	"	"
<b>Cadmium (7440-43-9)</b>	<b>0.9</b>		0.8	"	"	"
<b>Calcium (7440-70-2)</b>	<b>12,200</b>		23.0	"	"	"
<b>Chromium (7440-47-3)</b>	<b>13.0</b>		1.5	"	"	"
<b>Cobalt (7440-48-4)</b>	<b>3.1</b>		3.1	"	"	"
<b>Copper (7440-50-8)</b>	<b>16.0</b>	<b>B</b>	3.1	"	"	"
<b>Iron (7439-89-6)</b>	<b>6,420</b>	<b>L</b>	3.8	"	"	"
<b>Lead (7439-92-1)</b>	<b>11.7</b>		4.6	"	"	"
<b>Magnesium (7439-95-4)</b>	<b>287</b>		23.0	"	"	"
<b>Manganese (7439-96-5)</b>	<b>381</b>		0.8	"	"	"
<b>Nickel (7440-02-2)</b>	<b>4.5</b>		3.1	"	"	"
<b>Potassium (7440-09-7)</b>	<b>153</b>		153	"	"	"
Selenium (7782-49-2)	U		15.3	"	"	"
Silver (7440-22-4)	U	L	1.5	"	"	"
Thallium (7440-28-0)	U		15.3	"	"	"
<b>Sodium (7440-23-5)</b>	<b>187</b>		76.7	"	"	"
<b>Vanadium (7440-62-2)</b>	<b>11.7</b>		4.6	"	"	"
<b>Zinc (7440-66-6)</b>	<b>28.9</b>	<b>L</b>	3.1	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.108g  
 %Solids: 63.81

Sample Qualifiers: **R6HTS**

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Mercury (7439-97-6)</b>	<b>0.9</b>		0.1	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605012-04**

**Station ID: Field Duplicate 5**

Batch: B6F0805  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.511g  
 %Solids: 63.81

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	L	0.3	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>1.2</b>		0.3	"	"	"
<b>Lead (7439-92-1)</b>	<b>13.8</b>		0.3	"	"	"
<b>Selenium (7782-49-2)</b>	<b>3.4</b>		0.3	"	"	"
Thallium (7440-28-0)	U		0.3	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-04RE1**

**Station ID: Field Duplicate 5**

Batch: B6F1618  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 30.78g  
 %Solids: 63.81

Sample Qualifiers: **R6HTS**

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	6.71		52.8	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	9.03		71.1	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.5	1	06/16/06	06/23/06
alpha-BHC (319-84-6)	U		0.5	"	"	"
beta-BHC (319-85-7)	U		0.5	"	"	"
delta-BHC (319-86-8)	U		0.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.5	"	"	"
Cyfluthrin (68359-37-5)	U		0.5	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.5	"	"	"
4,4'-DDD (72-54-8)	U		0.5	"	"	"
4,4'-DDE (72-55-9)	U		0.5	"	"	"
4,4'-DDT (50-29-3)	U		0.5	"	"	"
Dieldrin (60-57-1)	U		0.5	"	"	"
Endosulfan I (959-98-8)	U		0.5	"	"	"
Endosulfan II (33213-65-9)	U		0.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.5	"	"	"
Endrin (72-20-8)	U		0.5	"	"	"
Endrin aldehyde (7421-93-4)	U		0.5	"	"	"
Endrin ketone (53494-70-5)	U	RL	2.0	"	"	"
Esfenvalerate (66230-04-4)	U		0.5	"	"	"
Heptachlor (76-44-8)	U		0.5	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.5	"	"	"
Methoxychlor (72-43-5)	U	R	0.5	"	"	"
Pendimethalin (40487-42-1)	U		127	"	"	"
Trifluralin (1582-09-8)	U		12.7	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605012-05**

**Station ID: Mossy Lake 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1033ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	2.90		59.9	39-117	05/17/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/17/06	05/22/06
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: 0605012-05**

**Station ID: Mossy Lake 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1047ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	17.3		36.2	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	48.7		102	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.1	1	05/19/06	06/06/06
Aroclor-1221 (11104-28-2)	U		38.2	"	"	"
Aroclor-1232 (11141-16-5)	U		19.1	"	"	"
Aroclor-1242 (53469-21-9)	U		19.1	"	"	"
Aroclor-1248 (12672-29-6)	U		19.1	"	"	"
Aroclor-1254 (11097-69-1)	U		19.1	"	"	"
Aroclor-1260 (11096-82-5)	U		19.1	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-05**

**Station ID: Mossy Lake 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1047ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	41.6		87.0	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	30.8		64.4	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	05/19/06	05/24/06
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		5.7	"	"	"
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		478	"	"	"
Trifluralin (1582-09-8)	U		47.8	"	"	"



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

**Lab ID: 0605012-05**

**Station ID: Mossy Lake 5**

Batch: B6E1901

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1047ml

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	05/19/06	05/24/06
Toxaphene (8001-35-2)	U		57.3	"	"	"



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

**Lab ID: 0605012-05**

**Station ID: Mossy Lake 5**

Batch: B6E1701

Date Collected: 05/16/06

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>	355		73.3	53-128	05/17/06	06/01/06
<i>Surr: Tributyl phosphate</i>	418	J	86.4	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>16.8</b>	<b>NJ</b>	9.7	1	05/17/06	06/01/06
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		9.7	"	"	"
Molinate (2212-67-1)	U		96.8	"	"	"
Carbofuran (1563-66-2)	U		9.7	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.124g

Sample Qualifiers:

%Solids: 38.02

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	349		53.3	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	410		62.6	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	388		59.2	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	194		44.4	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	267		61.1	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	295		67.5	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	671		102	29-125	"	"
<i>Surr: Terphenyl-d14</i>	639	J	146 #	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		87.3	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		87.3	"	"	"
Acetophenone (98-86-2)	U		349	"	"	"
Anthracene (120-12-7)	U		87.3	"	"	"
Atrazine (1912-24-9)	U		349	"	"	"
Benzaldehyde (100-52-7)	U		349	"	"	"
<b>Benzoic acid (65-85-0)</b>	<b>487</b>	<b>J, B</b>	349	"	"	"
Benzo (a) anthracene (56-55-3)	U		87.3	"	"	"
Benzo (a) pyrene (50-32-8)	U		87.3	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		87.3	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		87.3	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		87.3	"	"	"
Benzyl alcohol (100-51-6)	U		175	"	"	"
1,1'-Biphenyl (92-52-4)	U		349	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		349	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		349	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		349	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		175	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		349	"	"	"
Butyl benzyl phthalate (85-68-7)	U		175	"	"	"
Carbazole (86-74-8)	U		349	"	"	"
Caprolactam (105-60-2)	U		349	"	"	"
4-Chloroaniline (106-47-8)	U	R	349	"	"	"
2-Chloronaphthalene (91-58-7)	U		349	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.124g

Sample Qualifiers:

%Solids: 38.02

**Targets (Continued)**

Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		349	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		349	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		349	"	"	"
Chrysene (218-01-9)	U		87.3	"	"	"
Dibenzofuran (132-64-9)	U		349	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		87.3	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		87.3	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		87.3	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		87.3	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U	R	349	"	"	"
2,4-Dichlorophenol (120-83-2)	U		349	"	"	"
Diethyl phthalate (84-66-2)	U		175	"	"	"
2,4-Dimethylphenol (105-67-9)	U		87.3	"	"	"
Dimethyl phthalate (131-11-3)	U		175	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,750	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		349	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		349	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,750	"	"	"
Di-n-butyl phthalate (84-74-2)	U		175	"	"	"
Di-n-octyl phthalate (117-84-0)	U		175	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		34.9	"	"	"
Fluoranthene (206-44-0)	U		87.3	"	"	"
Fluorene (86-73-7)	U		87.3	"	"	"
Hexachlorobenzene (118-74-1)	U		34.9	"	"	"
Hexachlorobutadiene (87-68-3)	U		87.3	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	349	"	"	"
Hexachloroethane (67-72-1)	U		349	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		87.3	"	"	"
Isophorone (78-59-1)	U		87.3	"	"	"
2-Methylnaphthalene (91-57-6)	U		87.3	"	"	"
2-Methylphenol (95-48-7)	U		175	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		349	"	"	"
Naphthalene (91-20-3)	U		87.3	"	"	"
2-Nitroaniline (88-74-4)	U		698	"	"	"
3-Nitroaniline (99-09-2)	U	R	698	"	"	"
4-Nitroaniline (100-01-6)	U	R	698	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.124g

Sample Qualifiers:

%Solids: 38.02

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		349	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		349	"	"	"
4-Nitrophenol (100-02-7)	U		1,050	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		87.3	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		349	"	"	"
Pentachlorophenol (87-86-5)	U		349	"	"	"
Phenanthrene (85-01-8)	U		87.3	"	"	"
Phenol (108-95-2)	U		349	"	"	"
Pyrene (129-00-0)	U		87.3	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		349	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		34.9	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		349	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.124g

Sample Qualifiers:

%Solids: 38.02

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Methyl methylethyl benzene isomer (NA)	<b>27,000</b>		5.09	2	05/24/06	06/06/06
9-Octadecenoic acid isomer (NA)	<b>9,000</b>		12.57	"	"	"
Simonellite Isomer (NA)	<b>59,000</b>		12.69	"	"	"
Ferruginol (514-62-5)	<b>56,000</b>		13.43	"	"	"
Unknown@13.74 (NA)	<b>22,000</b>		13.74	"	"	"
Unknown@13.87 (NA)	<b>32,000</b>		13.87	"	"	"
Unknown@14.28 (NA)	<b>8,500</b>		14.28	"	"	"
Sugiol (511-05-7)	<b>11,000</b>		14.32	"	"	"
C30H40O3 isomer (NA)	<b>10,000</b>		16.96	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>10,000</b>		17.19	"	"	"

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: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.124g

Sample Qualifiers:

%Solids: 38.02

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	360		82.4	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		17.4	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		17.4	"	"	"
Trichlorobiphenyls (NA)	U		17.4	"	"	"
Tetrachlorobiphenyls (NA)	U		34.9	"	"	"
Pentachlorobiphenyls (NA)	U		34.9	"	"	"
Hexachlorobiphenyls (NA)	U		34.9	"	"	"
Heptachlorobiphenyls (NA)	U		52.3	"	"	"
Octachlorobiphenyls (NA)	U		52.3	"	"	"
Nonachlorobiphenyls (NA)	U		69.7	"	"	"
Decachlorobiphenyls (NA)	U		87.2	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.014g

Sample Qualifiers:

%Solids: 38.02

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	17.8		81.3	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	18.5		84.5	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		8.8	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		17.5	"	"	"
Aroclor-1232 (11141-16-5)	U		8.8	"	"	"
Aroclor-1242 (53469-21-9)	U		8.8	"	"	"
Aroclor-1248 (12672-29-6)	U		8.8	"	"	"
Aroclor-1254 (11097-69-1)	U		8.8	"	"	"
Aroclor-1260 (11096-82-5)	U		8.8	"	"	"



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

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.014g

Sample Qualifiers:

%Solids: 38.02

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		4.4	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		26.3	"	"	"



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

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.014g

Sample Qualifiers:

%Solids: 38.02

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	154		70.3	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	254		116	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		4.4	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		4.4	"	"	"
Methyl parathion (298-00-0)	U		4.4	"	"	"
Molinate (2212-67-1)	U		43.8	"	"	"
Carbofuran (1563-66-2)	U		4.4	"	"	"



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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.509g  
 %Solids: 38.02

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>3,700</b>		25.8	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		25.8	"	"	"
<b>Barium (7440-39-3)</b>	<b>130</b>		2.6	"	"	"
Beryllium (7440-41-7)	U		1.3	"	"	"
<b>Cadmium (7440-43-9)</b>	<b>1.4</b>		1.3	"	"	"
<b>Calcium (7440-70-2)</b>	<b>6,350</b>		38.8	"	"	"
<b>Chromium (7440-47-3)</b>	<b>6.3</b>		2.6	"	"	"
Cobalt (7440-48-4)	U		5.2	"	"	"
<b>Copper (7440-50-8)</b>	<b>9.0</b>	<b>B</b>	5.2	"	"	"
<b>Iron (7439-89-6)</b>	<b>6,660</b>	<b>L</b>	6.5	"	"	"
<b>Lead (7439-92-1)</b>	<b>8.9</b>		7.8	"	"	"
<b>Magnesium (7439-95-4)</b>	<b>475</b>		38.8	"	"	"
<b>Manganese (7439-96-5)</b>	<b>369</b>		1.3	"	"	"
Nickel (7440-02-2)	U		5.2	"	"	"
<b>Potassium (7440-09-7)</b>	<b>441</b>		258	"	"	"
Selenium (7782-49-2)	U		25.8	"	"	"
Silver (7440-22-4)	U	L	2.6	"	"	"
Thallium (7440-28-0)	U		25.8	"	"	"
<b>Sodium (7440-23-5)</b>	<b>860</b>		129	"	"	"
<b>Vanadium (7440-62-2)</b>	<b>12.6</b>		7.8	"	"	"
<b>Zinc (7440-66-6)</b>	<b>96.1</b>	<b>L</b>	5.2	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.1g  
 %Solids: 38.02

Sample Qualifiers: **R6HTS**

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.2	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605012-06**

**Station ID: Mossy Lake 5**

Batch: B6F0805  
Sample Type: Solid

Date Collected: 05/16/06  
Sample Wet Weight: 0.509g  
%Solids: 38.02

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>1.5</b>		0.5	"	"	"
<b>Lead (7439-92-1)</b>	<b>8.0</b>		0.5	"	"	"
<b>Selenium (7782-49-2)</b>	<b>2.0</b>		0.5	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-06RE1**

**Station ID: Mossy Lake 5**

Batch: B6F1618

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.304g

Sample Qualifiers: **R6HTS**

%Solids: 38.02

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	10.1		46.5	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	14.4		66.4	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.9	1	06/16/06	06/23/06
alpha-BHC (319-84-6)	U		0.9	"	"	"
beta-BHC (319-85-7)	U		0.9	"	"	"
delta-BHC (319-86-8)	U		0.9	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.9	"	"	"
Cyfluthrin (68359-37-5)	U		0.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.9	"	"	"
4,4'-DDD (72-54-8)	U		0.9	"	"	"
4,4'-DDE (72-55-9)	U		0.9	"	"	"
4,4'-DDT (50-29-3)	U		0.9	"	"	"
Dieldrin (60-57-1)	U		0.9	"	"	"
Endosulfan I (959-98-8)	U		0.9	"	"	"
Endosulfan II (33213-65-9)	U	RL	4.8	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.9	"	"	"
Endrin (72-20-8)	U		0.9	"	"	"
Endrin aldehyde (7421-93-4)	U		0.9	"	"	"
Endrin ketone (53494-70-5)	U	RL	3.5	"	"	"
Esfenvalerate (66230-04-4)	U		0.9	"	"	"
Heptachlor (76-44-8)	U		0.9	"	"	"
Heptachlor epoxide (1024-57-3)	U	RL	7.8	"	"	"
Methoxychlor (72-43-5)	U	R	0.9	"	"	"
Pendimethalin (40487-42-1)	U		216	"	"	"
Trifluralin (1582-09-8)	U		21.6	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605012-07**

**Station ID: Reference 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1036ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.95		81.8	39-117	05/17/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/17/06	05/22/06
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: 0605012-07**

**Station ID: Reference 5**

Batch: B6E1901

Date Collected: 05/16/06

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>	30.1		62.7	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	57.8		120	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.2	1	05/19/06	06/06/06
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: 0605012-07**

**Station ID: Reference 5**

Batch: B6E1901

Date Collected: 05/16/06

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>	22.8		47.5	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	39.4		82.1	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	05/19/06	05/24/06
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	"	"	"



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

**Lab ID: 0605012-07**

**Station ID: Reference 5**

Batch: B6E1901

Date Collected: 05/16/06

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	05/19/06	05/24/06
Toxaphene (8001-35-2)	U		57.6	"	"	"



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

**Lab ID: 0605012-07**

**Station ID: Reference 5**

Batch: B6E1701

Date Collected: 05/16/06

Sample Type: Liquid

Sample Volume: 1036ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	497		103	53-128	05/17/06	06/01/06
<i>Surr: Tributyl phosphate</i>	492		102	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>20.9</b>		9.7	1	05/17/06	06/01/06
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		9.7	"	"	"
Molinate (2212-67-1)	U		96.5	"	"	"
Carbofuran (1563-66-2)	U		9.7	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.042g

Sample Qualifiers:

%Solids: 65.75

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	183		48.2	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	223		58.7	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	209		55.0	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	85.1		33.6	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	124		49.0	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	155		61.3	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	346		91.1	29-125	"	"
<i>Surr: Terphenyl-d14</i>	272		108	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		50.6	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		50.6	"	"	"
Acetophenone (98-86-2)	U		203	"	"	"
Anthracene (120-12-7)	U		50.6	"	"	"
Atrazine (1912-24-9)	U		203	"	"	"
Benzaldehyde (100-52-7)	U		203	"	"	"
Benzoic acid (65-85-0)	U		203	"	"	"
Benzo (a) anthracene (56-55-3)	U		50.6	"	"	"
Benzo (a) pyrene (50-32-8)	U		50.6	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		50.6	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		50.6	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		50.6	"	"	"
Benzyl alcohol (100-51-6)	U		101	"	"	"
1,1'-Biphenyl (92-52-4)	U		203	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		203	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		203	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		203	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		101	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		203	"	"	"
Butyl benzyl phthalate (85-68-7)	U		101	"	"	"
Carbazole (86-74-8)	U		203	"	"	"
Caprolactam (105-60-2)	U		203	"	"	"
4-Chloroaniline (106-47-8)	U	R	203	"	"	"
2-Chloronaphthalene (91-58-7)	U		203	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.042g

Sample Qualifiers:

%Solids: 65.75

**Targets (Continued)**

Analyte (CAS Number)	Result	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		203	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		203	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		203	"	"	"
Chrysene (218-01-9)	U		50.6	"	"	"
Dibenzofuran (132-64-9)	U		203	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		50.6	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		50.6	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		50.6	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		50.6	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U	R	203	"	"	"
2,4-Dichlorophenol (120-83-2)	U		203	"	"	"
Diethyl phthalate (84-66-2)	U		101	"	"	"
2,4-Dimethylphenol (105-67-9)	U		50.6	"	"	"
Dimethyl phthalate (131-11-3)	U		101	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,010	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		203	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		203	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,010	"	"	"
Di-n-butyl phthalate (84-74-2)	U		101	"	"	"
Di-n-octyl phthalate (117-84-0)	U		101	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		20.3	"	"	"
Fluoranthene (206-44-0)	U		50.6	"	"	"
Fluorene (86-73-7)	U		50.6	"	"	"
Hexachlorobenzene (118-74-1)	U		20.3	"	"	"
Hexachlorobutadiene (87-68-3)	U		50.6	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U	R	203	"	"	"
Hexachloroethane (67-72-1)	U		203	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		50.6	"	"	"
Isophorone (78-59-1)	U		50.6	"	"	"
2-Methylnaphthalene (91-57-6)	U		50.6	"	"	"
2-Methylphenol (95-48-7)	U		101	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		203	"	"	"
Naphthalene (91-20-3)	U		50.6	"	"	"
2-Nitroaniline (88-74-4)	U		405	"	"	"
3-Nitroaniline (99-09-2)	U	R	405	"	"	"
4-Nitroaniline (100-01-6)	U	R	405	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.042g

Sample Qualifiers:

%Solids: 65.75

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		203	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		203	"	"	"
4-Nitrophenol (100-02-7)	U		608	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		50.6	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		203	"	"	"
Pentachlorophenol (87-86-5)	U		203	"	"	"
Phenanthrene (85-01-8)	U		50.6	"	"	"
Phenol (108-95-2)	U		203	"	"	"
Pyrene (129-00-0)	U		50.6	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		203	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		20.3	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		203	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.042g

Sample Qualifiers:

%Solids: 65.75

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecenoic acid, Z-11- (2416-20-8)	<b>1,700</b>		11.57	2	05/24/06	06/06/06
Hexadecanoic acid (57-10-3)	<b>1,300</b>		11.67	"	"	"
Unknown@13.58 (NA)	<b>1,700</b>		13.58	"	"	"
Unknown@13.69 (NA)	<b>4,200</b>		13.69	"	"	"
Heptacosane (593-49-7)	<b>1,300</b>		14.33	"	"	"
Nonacosane (630-03-5)	<b>1,900</b>		14.92	"	"	"
Hentriacontane (630-04-6)	<b>1,600</b>		15.65	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>2,900</b>		17.14	"	"	"
C30H52O isomer (NA)	<b>1,500</b>		18.69	"	"	"
Friedelin (559-74-0)	<b>3,300</b>		18.92	"	"	"

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: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2405

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.042g

Sample Qualifiers:

%Solids: 65.75

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	141		55.7	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		10.1	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		10.1	"	"	"
Trichlorobiphenyls (NA)	U		10.1	"	"	"
Tetrachlorobiphenyls (NA)	U		20.3	"	"	"
Pentachlorobiphenyls (NA)	U		20.3	"	"	"
Hexachlorobiphenyls (NA)	U		20.3	"	"	"
Heptachlorobiphenyls (NA)	U		30.3	"	"	"
Octachlorobiphenyls (NA)	U		30.3	"	"	"
Nonachlorobiphenyls (NA)	U		40.4	"	"	"
Decachlorobiphenyls (NA)	U		50.6	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.524g

Sample Qualifiers:

%Solids: 65.75

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	9.76		78.1	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	10.4		83.2	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		5.0	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		10.0	"	"	"
Aroclor-1232 (11141-16-5)	U		5.0	"	"	"
Aroclor-1242 (53469-21-9)	U		5.0	"	"	"
Aroclor-1248 (12672-29-6)	U		5.0	"	"	"
<b>Aroclor-1254 (11097-69-1)</b>	<b>7.8</b>	<b>NJ</b>	5.0	"	"	06/08/06
<b>Aroclor-1260 (11096-82-5)</b>	<b>20.8</b>		5.0	"	"	06/06/06



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

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.524g

Sample Qualifiers:

%Solids: 65.75

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.5	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		14.9	"	"	"



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

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6E2301

Date Collected: 05/16/06

Sample Type: Solid

Sample Wet Weight: 30.524g

Sample Qualifiers:

%Solids: 65.75

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	83.4		66.7	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	137		110	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		2.5	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		2.5	"	"	"
Methyl parathion (298-00-0)	U		2.5	"	"	"
Molinate (2212-67-1)	U		24.9	"	"	"
Carbofuran (1563-66-2)	U		2.5	"	"	"



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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.511g  
 %Solids: 65.75

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>3,890</b>		14.9	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		14.9	"	"	06/15/06
<b>Barium (7440-39-3)</b>	<b>83.9</b>		1.5	"	"	"
Beryllium (7440-41-7)	U		0.7	"	"	"
<b>Cadmium (7440-43-9)</b>	<b>0.9</b>		0.7	"	"	"
<b>Calcium (7440-70-2)</b>	<b>8,960</b>		22.3	"	"	06/15/06
<b>Chromium (7440-47-3)</b>	<b>11.9</b>		1.5	"	"	06/15/06
Cobalt (7440-48-4)	U		3.0	"	"	"
<b>Copper (7440-50-8)</b>	<b>13.5</b>	<b>B</b>	3.0	"	"	06/15/06
<b>Iron (7439-89-6)</b>	<b>6,160</b>	<b>L</b>	3.7	"	"	"
<b>Lead (7439-92-1)</b>	<b>12.3</b>		4.5	"	"	06/15/06
<b>Magnesium (7439-95-4)</b>	<b>286</b>		22.3	"	"	"
<b>Manganese (7439-96-5)</b>	<b>334</b>		0.7	"	"	06/15/06
<b>Nickel (7440-02-2)</b>	<b>4.0</b>		3.0	"	"	06/15/06
<b>Potassium (7440-09-7)</b>	<b>156</b>		149	"	"	06/15/06
Selenium (7782-49-2)	U		14.9	"	"	06/15/06
Silver (7440-22-4)	U	L	1.5	"	"	"
Thallium (7440-28-0)	U		14.9	"	"	"
<b>Sodium (7440-23-5)</b>	<b>145</b>		74.4	"	"	06/15/06
<b>Vanadium (7440-62-2)</b>	<b>12.7</b>		4.5	"	"	06/15/06
<b>Zinc (7440-66-6)</b>	<b>28.4</b>	<b>L</b>	3.0	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.114g  
 %Solids: 65.75

Sample Qualifiers: **R6HTS**

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Mercury (7439-97-6)</b>	<b>0.8</b>		0.1	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605012-08**

**Station ID: Reference 5**

Batch: B6F0805  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 0.511g  
 %Solids: 65.75

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.3	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>1.2</b>		0.3	"	"	"
<b>Lead (7439-92-1)</b>	<b>14.0</b>		0.3	"	"	"
<b>Selenium (7782-49-2)</b>	<b>3.2</b>		0.3	"	"	"
Thallium (7440-28-0)	U		0.3	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605012-08RE1**

**Station ID: Reference 5**

Batch: B6F1618  
 Sample Type: Solid

Date Collected: 05/16/06  
 Sample Wet Weight: 30.411g  
 %Solids: 65.75

Sample Qualifiers: **R6HTS**

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	5.97		47.8	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	15.2		122	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.5	1	06/16/06	06/23/06
alpha-BHC (319-84-6)	U		0.5	"	"	"
beta-BHC (319-85-7)	U		0.5	"	"	"
delta-BHC (319-86-8)	U		0.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.5	"	"	"
Cyfluthrin (68359-37-5)	U		0.5	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.5	"	"	"
4,4'-DDD (72-54-8)	U		0.5	"	"	"
4,4'-DDE (72-55-9)	U		0.5	"	"	"
4,4'-DDT (50-29-3)	U		0.5	"	"	"
Dieldrin (60-57-1)	U		0.5	"	"	"
Endosulfan I (959-98-8)	U		0.5	"	"	"
Endosulfan II (33213-65-9)	U		0.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.5	"	"	"
Endrin (72-20-8)	U		0.5	"	"	"
Endrin aldehyde (7421-93-4)	U		0.5	"	"	"
Endrin ketone (53494-70-5)	U	RL	2.0	"	"	"
Esfenvalerate (66230-04-4)	U		0.5	"	"	"
Heptachlor (76-44-8)	U		0.5	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.5	"	"	"
Methoxychlor (72-43-5)	U	R	0.5	"	"	"
Pendimethalin (40487-42-1)	U		125	"	"	"
Trifluralin (1582-09-8)	U		12.5	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605014-01**

**Station ID: Ouachita DN 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1015ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.93		79.7	39-117	05/18/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/18/06	05/22/06
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: 0605014-01**

**Station ID: Ouachita DN 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1050ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	32.3		67.9	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	49.9		105	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.0	1	05/19/06	06/06/06
Aroclor-1221 (11104-28-2)	U		38.1	"	"	"
Aroclor-1232 (11141-16-5)	U		19.0	"	"	"
Aroclor-1242 (53469-21-9)	U		19.0	"	"	"
Aroclor-1248 (12672-29-6)	U		19.0	"	"	"
Aroclor-1254 (11097-69-1)	U		19.0	"	"	"
Aroclor-1260 (11096-82-5)	U		19.0	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605014-01**

**Station ID: Ouachita DN 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1050ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	26.0		54.6	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	40.7		85.5	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.5	1	05/19/06	05/24/06
alpha-BHC (319-84-6)	U		9.5	"	"	"
beta-BHC (319-85-7)	U		9.5	"	"	"
delta-BHC (319-86-8)	U		9.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.5	"	"	"
Cyfluthrin (68359-37-5)	U		1.9	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		5.7	"	"	"
4,4'-DDE (72-55-9)	U		9.5	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.5	"	"	"
Endosulfan I (959-98-8)	U		9.5	"	"	"
Endosulfan II (33213-65-9)	U		9.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.5	"	"	"
Endrin (72-20-8)	U		9.5	"	"	"
Endrin aldehyde (7421-93-4)	U		9.5	"	"	"
Endrin ketone (53494-70-5)	U		9.5	"	"	"
Esfenvalerate (66230-04-4)	U		9.5	"	"	"
Heptachlor (76-44-8)	U		2.9	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.5	"	"	"
Methoxychlor (72-43-5)	U		9.5	"	"	"
Pendimethalin (40487-42-1)	U		476	"	"	"
Trifluralin (1582-09-8)	U		47.6	"	"	"



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

**Lab ID: 0605014-01**

**Station ID: Ouachita DN 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1050ml

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.5	1	05/19/06	05/25/06
Toxaphene (8001-35-2)	U		57.1	"	"	"



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

**Lab ID: 0605014-01**

**Station ID: Ouachita DN 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1015ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	555		113	53-128	05/18/06	06/01/06
<i>Surr: Tributyl phosphate</i>	599		122 #	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>20.2</b>		9.9	1	05/18/06	06/01/06
Diazinon (333-41-5)	U		9.9	"	"	"
Methyl parathion (298-00-0)	U		9.9	"	"	"
Molinate (2212-67-1)	U		98.5	"	"	"
Carbofuran (1563-66-2)	U		9.9	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.128g

Sample Qualifiers:

%Solids: 73.82

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	173		51.3	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	207		61.4	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	205		60.8	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	103		45.8	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	129		57.3	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	151		67.1	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	342		101	29-125	"	"
<i>Surr: Terphenyl-d14</i>	237		105	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		45.0	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		45.0	"	"	"
Acetophenone (98-86-2)	U		180	"	"	"
Anthracene (120-12-7)	U		45.0	"	"	"
Atrazine (1912-24-9)	U		180	"	"	"
Benzaldehyde (100-52-7)	U		180	"	"	"
Benzoic acid (65-85-0)	U		180	"	"	"
Benzo (a) anthracene (56-55-3)	U		45.0	"	"	"
Benzo (a) pyrene (50-32-8)	U		45.0	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		45.0	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		45.0	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		45.0	"	"	"
Benzyl alcohol (100-51-6)	U		89.9	"	"	"
1,1'-Biphenyl (92-52-4)	U		180	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		180	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		180	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		180	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		89.9	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		180	"	"	"
Butyl benzyl phthalate (85-68-7)	U		89.9	"	"	"
Carbazole (86-74-8)	U		180	"	"	"
Caprolactam (105-60-2)	U		180	"	"	"
4-Chloroaniline (106-47-8)	U		180	"	"	"
2-Chloronaphthalene (91-58-7)	U		180	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2405  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 30.128g  
 %Solids: 73.82

Sample Qualifiers:

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		180	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		180	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		180	"	"	"
Chrysene (218-01-9)	U		45.0	"	"	"
Dibenzofuran (132-64-9)	U		180	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		45.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		45.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		45.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		45.0	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		180	"	"	"
2,4-Dichlorophenol (120-83-2)	U		180	"	"	"
Diethyl phthalate (84-66-2)	U		89.9	"	"	"
2,4-Dimethylphenol (105-67-9)	U		45.0	"	"	"
Dimethyl phthalate (131-11-3)	U		89.9	"	"	"
2,4-Dinitrophenol (51-28-5)	U		899	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		180	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		180	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		899	"	"	"
Di-n-butyl phthalate (84-74-2)	U		89.9	"	"	"
Di-n-octyl phthalate (117-84-0)	U		89.9	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		18.0	"	"	"
Fluoranthene (206-44-0)	U		45.0	"	"	"
Fluorene (86-73-7)	U		45.0	"	"	"
Hexachlorobenzene (118-74-1)	U		18.0	"	"	"
Hexachlorobutadiene (87-68-3)	U		45.0	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		180	"	"	"
Hexachloroethane (67-72-1)	U		180	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		45.0	"	"	"
Isophorone (78-59-1)	U		45.0	"	"	"
2-Methylnaphthalene (91-57-6)	U		45.0	"	"	"
2-Methylphenol (95-48-7)	U		89.9	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		180	"	"	"
Naphthalene (91-20-3)	U		45.0	"	"	"
2-Nitroaniline (88-74-4)	U		360	"	"	"
3-Nitroaniline (99-09-2)	U		360	"	"	"
4-Nitroaniline (100-01-6)	U		360	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.128g

Sample Qualifiers:

%Solids: 73.82

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		180	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		180	"	"	"
4-Nitrophenol (100-02-7)	U		540	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		45.0	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		180	"	"	"
Pentachlorophenol (87-86-5)	U		180	"	"	"
Phenanthrene (85-01-8)	U		45.0	"	"	"
Phenol (108-95-2)	U		180	"	"	"
Pyrene (129-00-0)	U		45.0	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		180	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		18.0	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		180	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.128g

Sample Qualifiers:

%Solids: 73.82

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecenoic acid, Z-11- (2416-20-8)	<b>810</b>		11.56	2	05/24/06	06/06/06
Hexadecanoic acid (57-10-3)	<b>1,000</b>		11.66	"	"	"
Nonacosane (630-03-5)	<b>1,400</b>		14.92	"	"	"
Hentriacontane (630-04-6)	<b>1,200</b>		15.65	"	"	"
C27H46O isomer (NA)	<b>700</b>		16.05	"	"	"
Unknown straight chain paraffin (NA)	<b>670</b>		16.62	"	"	"
Stigmasterol (83-48-7)	<b>730</b>		16.79	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>1,800</b>		17.14	"	"	"
Unknown@17.62 (NA)	<b>680</b>		17.62	"	"	"
Lupeol (545-47-1)	<b>910</b>		17.79	"	"	"

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: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.128g

Sample Qualifiers:

%Solids: 73.82

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	144		64.0	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		9.0	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		9.0	"	"	"
Trichlorobiphenyls (NA)	U		9.0	"	"	"
Tetrachlorobiphenyls (NA)	U		18.0	"	"	"
Pentachlorobiphenyls (NA)	U		18.0	"	"	"
Hexachlorobiphenyls (NA)	U		18.0	"	"	"
Heptachlorobiphenyls (NA)	U		27.0	"	"	"
Octachlorobiphenyls (NA)	U		27.0	"	"	"
Nonachlorobiphenyls (NA)	U		35.9	"	"	"
Decachlorobiphenyls (NA)	U		44.9	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.387g

Sample Qualifiers:

%Solids: 73.82

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	9.23		83.2	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	9.56		86.1	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		4.5	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		8.9	"	"	"
Aroclor-1232 (11141-16-5)	U		4.5	"	"	"
Aroclor-1242 (53469-21-9)	U		4.5	"	"	"
Aroclor-1248 (12672-29-6)	U		4.5	"	"	"
Aroclor-1254 (11097-69-1)	U		4.5	"	"	"
Aroclor-1260 (11096-82-5)	U		4.5	"	"	"



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

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.387g

Sample Qualifiers:

%Solids: 73.82

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.2	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		13.4	"	"	"



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

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.387g

Sample Qualifiers:

%Solids: 73.82

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	68.1		61.4	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	116		105	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		2.2	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		2.2	"	"	"
Methyl parathion (298-00-0)	U		2.2	"	"	"
Molinate (2212-67-1)	U		22.3	"	"	"
Carbofuran (1563-66-2)	U		2.2	"	"	"



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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.513g  
 %Solids: 73.82

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>1,890</b>		13.2	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		13.2	"	"	"
<b>Barium (7440-39-3)</b>	<b>36.4</b>		1.3	"	"	"
Beryllium (7440-41-7)	U		0.7	"	"	"
Cadmium (7440-43-9)	U		0.7	"	"	"
<b>Calcium (7440-70-2)</b>	<b>497</b>		19.8	"	"	"
<b>Chromium (7440-47-3)</b>	<b>2.7</b>		1.3	"	"	"
<b>Cobalt (7440-48-4)</b>	<b>3.5</b>		2.6	"	"	"
Copper (7440-50-8)	U	B	2.6	"	"	"
<b>Iron (7439-89-6)</b>	<b>4,830</b>	<b>L</b>	3.3	"	"	"
<b>Lead (7439-92-1)</b>	<b>4.7</b>		4.0	"	"	"
<b>Magnesium (7439-95-4)</b>	<b>230</b>		19.8	"	"	"
<b>Manganese (7439-96-5)</b>	<b>238</b>		0.7	"	"	"
Nickel (7440-02-2)	U		2.6	"	"	"
<b>Potassium (7440-09-7)</b>	<b>146</b>		132	"	"	"
Selenium (7782-49-2)	U		13.2	"	"	"
Silver (7440-22-4)	U	L	1.3	"	"	"
Thallium (7440-28-0)	U		13.2	"	"	"
Sodium (7440-23-5)	U		66.0	"	"	"
<b>Vanadium (7440-62-2)</b>	<b>13.6</b>		4.0	"	"	"
<b>Zinc (7440-66-6)</b>	<b>15.4</b>	<b>L</b>	2.6	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.118g  
 %Solids: 73.82

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.09	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605014-02**

**Station ID: Ouachita DN 5**

Batch: B6F0805  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.513g  
 %Solids: 73.82

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.3	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>1.1</b>		0.3	"	"	"
<b>Lead (7439-92-1)</b>	<b>4.3</b>		0.3	"	"	"
<b>Selenium (7782-49-2)</b>	<b>1.4</b>		0.3	"	"	"
Thallium (7440-28-0)	U		0.3	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605014-02RE1**

**Station ID: Ouachita DN 5**

Batch: B6F1618

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.424g

Sample Qualifiers: **R6HTS**

%Solids: 73.82

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	5.88		53.0	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	9.24		83.2	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.4	1	06/16/06	06/23/06
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	RL	1.8	"	"	"
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	R	0.4	"	"	"
Pendimethalin (40487-42-1)	U		111	"	"	"
Trifluralin (1582-09-8)	U		11.1	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605014-03**

**Station ID: Field Blank 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1028ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	3.89		80.0	39-117	05/18/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/18/06	05/22/06
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: 0605014-03**

**Station ID: Field Blank 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1006ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	40.1		80.7	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	60.3		121	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.9	1	05/19/06	06/06/06
Aroclor-1221 (11104-28-2)	U		39.8	"	"	"
Aroclor-1232 (11141-16-5)	U		19.9	"	"	"
Aroclor-1242 (53469-21-9)	U		19.9	"	"	"
Aroclor-1248 (12672-29-6)	U		19.9	"	"	"
Aroclor-1254 (11097-69-1)	U		19.9	"	"	"
Aroclor-1260 (11096-82-5)	U		19.9	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605014-03**

**Station ID: Field Blank 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1006ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	28.0		56.3	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	43.1		86.7	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.9	1	05/19/06	05/24/06
alpha-BHC (319-84-6)	U		9.9	"	"	"
beta-BHC (319-85-7)	U		9.9	"	"	"
delta-BHC (319-86-8)	U		9.9	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		9.9	"	"	"
Cyfluthrin (68359-37-5)	U		2.0	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		1.0	"	"	"
4,4'-DDD (72-54-8)	U		6.0	"	"	"
4,4'-DDE (72-55-9)	U		9.9	"	"	"
4,4'-DDT (50-29-3)	U		1.0	"	"	"
Dieldrin (60-57-1)	U		9.9	"	"	"
Endosulfan I (959-98-8)	U		9.9	"	"	"
Endosulfan II (33213-65-9)	U		9.9	"	"	"
Endosulfan sulfate (1031-07-8)	U		9.9	"	"	"
Endrin (72-20-8)	U		9.9	"	"	"
Endrin aldehyde (7421-93-4)	U		9.9	"	"	"
Endrin ketone (53494-70-5)	U		9.9	"	"	"
Esfenvalerate (66230-04-4)	U		9.9	"	"	"
Heptachlor (76-44-8)	U		3.0	"	"	"
Heptachlor epoxide (1024-57-3)	U		9.9	"	"	"
Methoxychlor (72-43-5)	U		9.9	"	"	"
Pendimethalin (40487-42-1)	U		497	"	"	"
Trifluralin (1582-09-8)	U		49.7	"	"	"



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

**Lab ID: 0605014-03**

**Station ID: Field Blank 5**

Batch: B6E1901

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1006ml

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		9.9	1	05/19/06	05/25/06
Toxaphene (8001-35-2)	U		59.6	"	"	"



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

**Lab ID: 0605014-03**

**Station ID: Field Blank 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1028ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	578		119	53-128	05/18/06	06/01/06
<i>Surr: Tributyl phosphate</i>	536		110	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		9.7	1	05/18/06	06/01/06
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		9.7	"	"	"
Molinate (2212-67-1)	U		97.3	"	"	"
Carbofuran (1563-66-2)	U		9.7	"	"	"



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**Homolog PCBs by EPA Method 680 - GC/MS**

**Lab ID: 0605014-04**

**Station ID: Ouachita UP 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1030ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	4.04		83.3	39-117	05/18/06	05/22/06

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		0.1	1	05/18/06	05/22/06
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: 0605014-04**

**Station ID: Ouachita UP 5**

Batch: B6E1901

Date Collected: 05/17/06

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>	36.2		75.3	28-101	05/19/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	61.7		128	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		19.2	1	05/19/06	06/06/06
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: 0605014-04**

**Station ID: Ouachita UP 5**

Batch: B6E1901

Date Collected: 05/17/06

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>	26.3		54.7	28-101	05/19/06	05/24/06
<i>Surr: Decachlorobiphenyl</i>	40.8		84.8	35-139	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		9.6	1	05/19/06	05/24/06
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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**Toxaphene and Tech. Chlordane by 8081A - GC/ECD**

**Lab ID: 0605014-04**

**Station ID: Ouachita UP 5**

Batch: B6E1901

Date Collected: 05/17/06

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	05/19/06	05/25/06
Toxaphene (8001-35-2)	U		57.7	"	"	"



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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: 0605014-04**

**Station ID: Ouachita UP 5**

Batch: B6E1807

Date Collected: 05/17/06

Sample Type: Liquid

Sample Volume: 1030ml

Sample Qualifiers:

**Surrogates**

Analyte	Result ng/L	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	511		105	53-128	05/18/06	06/01/06
<i>Surr: Tributyl phosphate</i>	502		104	49-119	"	"

**Targets**

Analyte (CAS Number)	Result ng/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Atrazine (1912-24-9)</b>	<b>15.6</b>		9.7	1	05/18/06	06/01/06
Diazinon (333-41-5)	U		9.7	"	"	"
Methyl parathion (298-00-0)	U		9.7	"	"	"
Molinate (2212-67-1)	U		97.1	"	"	"
Carbofuran (1563-66-2)	U		9.7	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.033g

Sample Qualifiers:

%Solids: 60.72

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorophenol</i>	223		54.3	26-104	05/24/06	06/06/06
<i>Surr: Phenol-d5</i>	248		60.3	29-107	"	"
<i>Surr: 2-Chlorophenol-d4</i>	251		61.1	28-103	"	"
<i>Surr: 1,2-Dichlorobenzene-d4</i>	134		48.9	26-98	"	"
<i>Surr: Nitrobenzene-d5</i>	160		58.4	26-109	"	"
<i>Surr: 2-Fluorobiphenyl</i>	184		67.2	34-116	"	"
<i>Surr: 2,4,6-Tribromophenol</i>	419		102	29-125	"	"
<i>Surr: Terphenyl-d14</i>	299		109	41-141	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Acenaphthene (83-32-9)	U		54.8	2	05/24/06	06/06/06
Acenaphthylene (208-96-8)	U		54.8	"	"	"
Acetophenone (98-86-2)	U		219	"	"	"
Anthracene (120-12-7)	U		54.8	"	"	"
Atrazine (1912-24-9)	U		219	"	"	"
Benzaldehyde (100-52-7)	U		219	"	"	"
<b>Benzoic acid (65-85-0)</b>	<b>224</b>	<b>J, B</b>	219	"	"	"
Benzo (a) anthracene (56-55-3)	U		54.8	"	"	"
Benzo (a) pyrene (50-32-8)	U		54.8	"	"	"
Benzo (b) fluoranthene (205-99-2)	U		54.8	"	"	"
Benzo (g,h,i) perylene (191-24-2)	U		54.8	"	"	"
Benzo (k) fluoranthene (207-08-9)	U		54.8	"	"	"
Benzyl alcohol (100-51-6)	U		110	"	"	"
1,1'-Biphenyl (92-52-4)	U		219	"	"	"
Bis(2-chloroethoxy)methane (111-91-1)	U		219	"	"	"
Bis(2-chloroethyl)ether (111-44-4)	U		219	"	"	"
Bis(2-chloroisopropyl)ether (108-60-1)	U		219	"	"	"
Bis(2-ethylhexyl)phthalate (117-81-7)	U		110	"	"	"
4-Bromophenyl phenyl ether (101-55-3)	U		219	"	"	"
Butyl benzyl phthalate (85-68-7)	U		110	"	"	"
Carbazole (86-74-8)	U		219	"	"	"
Caprolactam (105-60-2)	U		219	"	"	"
4-Chloroaniline (106-47-8)	U		219	"	"	"
2-Chloronaphthalene (91-58-7)	U		219	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.033g

Sample Qualifiers:

%Solids: 60.72

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
2-Chlorophenol (95-57-8)	U		219	2	05/24/06	06/06/06
4-Chlorophenyl phenyl ether (7005-72-3)	U		219	"	"	"
4-Chloro-3-methylphenol (59-50-7)	U		219	"	"	"
Chrysene (218-01-9)	U		54.8	"	"	"
Dibenzofuran (132-64-9)	U		219	"	"	"
Dibenz (a,h) anthracene (53-70-3)	U		54.8	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		54.8	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		54.8	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		54.8	"	"	"
3,3'-Dichlorobenzidine (91-94-1)	U		219	"	"	"
2,4-Dichlorophenol (120-83-2)	U		219	"	"	"
Diethyl phthalate (84-66-2)	U		110	"	"	"
2,4-Dimethylphenol (105-67-9)	U		54.8	"	"	"
Dimethyl phthalate (131-11-3)	U		110	"	"	"
2,4-Dinitrophenol (51-28-5)	U		1,100	"	"	"
2,4-Dinitrotoluene (121-14-2)	U		219	"	"	"
2,6-Dinitrotoluene (606-20-2)	U		219	"	"	"
4,6-Dinitro-2-methylphenol (534-52-1)	U		1,100	"	"	"
Di-n-butyl phthalate (84-74-2)	U		110	"	"	"
Di-n-octyl phthalate (117-84-0)	U		110	"	"	"
1,2-Diphenylhydrazine (122-66-7)	U		21.9	"	"	"
Fluoranthene (206-44-0)	U		54.8	"	"	"
Fluorene (86-73-7)	U		54.8	"	"	"
Hexachlorobenzene (118-74-1)	U		21.9	"	"	"
Hexachlorobutadiene (87-68-3)	U		54.8	"	"	"
Hexachlorocyclopentadiene (77-47-4)	U		219	"	"	"
Hexachloroethane (67-72-1)	U		219	"	"	"
Indeno (1,2,3-cd) pyrene (193-39-5)	U		54.8	"	"	"
Isophorone (78-59-1)	U		54.8	"	"	"
2-Methylnaphthalene (91-57-6)	U		54.8	"	"	"
2-Methylphenol (95-48-7)	U		110	"	"	"
3 &/or 4-Methylphenol (106-44-5)	U		219	"	"	"
Naphthalene (91-20-3)	U		54.8	"	"	"
2-Nitroaniline (88-74-4)	U		439	"	"	"
3-Nitroaniline (99-09-2)	U		439	"	"	"
4-Nitroaniline (100-01-6)	U		439	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.033g

Sample Qualifiers:

%Solids: 60.72

**Targets (Continued)**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Nitrobenzene (98-95-3)	U		219	2	05/24/06	06/06/06
2-Nitrophenol (88-75-5)	U		219	"	"	"
4-Nitrophenol (100-02-7)	U		658	"	"	"
N-Nitrosodiphenylamine (86-30-6)	U		54.8	"	"	"
N-Nitrosodi-n-propylamine (621-64-7)	U		219	"	"	"
Pentachlorophenol (87-86-5)	U		219	"	"	"
Phenanthrene (85-01-8)	U		54.8	"	"	"
Phenol (108-95-2)	U		219	"	"	"
Pyrene (129-00-0)	U		54.8	"	"	"
2,4,5-Trichlorophenol (95-95-4)	U		219	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		21.9	"	"	"
2,4,6-Trichlorophenol (88-06-2)	U		219	"	"	"



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**Semivolatiles by EPA Method 8270 - GC/MS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.033g

Sample Qualifiers:

%Solids: 60.72

**Tentatively Identified Compounds**

Compound (CAS)	Result µg/kg dry	Analyte Qualifiers	Retention Time	Dilution	Prepared	Analyzed
Hexadecenoic acid, Z-11- (2416-20-8)	<b>1,900</b>		11.57	2	05/24/06	06/06/06
Hexadecanoic acid (57-10-3)	<b>1,300</b>		11.67	"	"	"
Phytol (150-86-7)	<b>940</b>		12.40	"	"	"
9-Octadecenoic acid isomer (NA)	<b>1,300</b>		12.52	"	"	"
Nonacosane (630-03-5)	<b>2,100</b>		14.92	"	"	"
Hentriacontane (630-04-6)	<b>1,100</b>		15.65	"	"	"
C27H46O isomer (NA)	<b>1,100</b>		16.05	"	"	"
Unknown straight chain paraffin (NA)	<b>870</b>		16.61	"	"	"
Stigmasterol (83-48-7)	<b>970</b>		16.79	"	"	"
.gamma.-Sitosterol (83-47-6)	<b>2,100</b>		17.15	"	"	"

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: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2405

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.033g

Sample Qualifiers:

%Solids: 60.72

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	184		67.2	34-116	05/24/06	06/07/06

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Monochlorobiphenyls (NA)	U		11.0	2	05/24/06	06/07/06
Dichlorobiphenyls (NA)	U		11.0	"	"	"
Trichlorobiphenyls (NA)	U		11.0	"	"	"
Tetrachlorobiphenyls (NA)	U		21.9	"	"	"
Pentachlorobiphenyls (NA)	U		21.9	"	"	"
Hexachlorobiphenyls (NA)	U		21.9	"	"	"
Heptachlorobiphenyls (NA)	U		32.9	"	"	"
Octachlorobiphenyls (NA)	U		32.9	"	"	"
Nonachlorobiphenyls (NA)	U		43.8	"	"	"
Decachlorobiphenyls (NA)	U		54.8	"	"	"
Total PCBs (NA)	U			"	"	"



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**Aroclors by EPA Method 8082 - GC/ECD**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.247g

Sample Qualifiers:

%Solids: 60.72

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	10.3		75.7	32-112	05/23/06	06/06/06
<i>Surr: Decachlorobiphenyl</i>	10.8		79.4	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aroclor-1016 (12674-11-2)	U		5.4	1	05/23/06	06/06/06
Aroclor-1221 (11104-28-2)	U		10.9	"	"	"
Aroclor-1232 (11141-16-5)	U		5.4	"	"	"
Aroclor-1242 (53469-21-9)	U		5.4	"	"	"
Aroclor-1248 (12672-29-6)	U		5.4	"	"	"
Aroclor-1254 (11097-69-1)	U		5.4	"	"	"
Aroclor-1260 (11096-82-5)	U		5.4	"	"	"



Environmental Protection Agency  
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**Toxaphene and Tech. Chlordane by 8081A - GC/ECD**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.247g

Sample Qualifiers:

%Solids: 60.72

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Chlordane (tech) (57-74-9)	U		2.7	1	05/23/06	06/12/06
Toxaphene (8001-35-2)	U		16.3	"	"	"



Environmental Protection Agency  
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**Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6E2301

Date Collected: 05/17/06

Sample Type: Solid

Sample Wet Weight: 30.247g

Sample Qualifiers:

%Solids: 60.72

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Triphenyl phosphate</i>	82.4		60.6	41-130	05/23/06	06/06/06
<i>Surr: Tributyl phosphate</i>	133		97.8	49-134	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Atrazine (1912-24-9)	U		2.7	1	05/23/06	06/06/06
Diazinon (333-41-5)	U		2.7	"	"	"
Methyl parathion (298-00-0)	U		2.7	"	"	"
Molinate (2212-67-1)	U		27.2	"	"	"
Carbofuran (1563-66-2)	U		2.7	"	"	"



**Environmental Protection Agency**  
**Region 6 Laboratory**

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**Metals by EPA Method 6010B - ICP**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6F0602  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.502g  
 %Solids: 60.72

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
<b>Aluminum (7429-90-5)</b>	<b>2,890</b>		16.4	1	06/08/06	06/15/06
Arsenic (7440-38-2)	U		16.4	"	"	"
<b>Barium (7440-39-3)</b>	<b>64.4</b>		1.6	"	"	"
Beryllium (7440-41-7)	U		0.8	"	"	"
<b>Cadmium (7440-43-9)</b>	<b>1.0</b>		0.8	"	"	"
<b>Calcium (7440-70-2)</b>	<b>948</b>		24.6	"	"	"
<b>Chromium (7440-47-3)</b>	<b>4.6</b>		1.6	"	"	"
<b>Cobalt (7440-48-4)</b>	<b>6.5</b>		3.3	"	"	"
<b>Copper (7440-50-8)</b>	<b>3.4</b>	<b>B</b>	3.3	"	"	"
<b>Iron (7439-89-6)</b>	<b>8,460</b>	<b>L</b>	4.1	"	"	"
<b>Lead (7439-92-1)</b>	<b>5.8</b>		4.9	"	"	"
<b>Magnesium (7439-95-4)</b>	<b>418</b>		24.6	"	"	"
<b>Manganese (7439-96-5)</b>	<b>666</b>		0.8	"	"	"
<b>Nickel (7440-02-2)</b>	<b>3.8</b>		3.3	"	"	"
<b>Potassium (7440-09-7)</b>	<b>199</b>		164	"	"	"
Selenium (7782-49-2)	U		16.4	"	"	"
Silver (7440-22-4)	U	L	1.6	"	"	"
Thallium (7440-28-0)	U		16.4	"	"	"
Sodium (7440-23-5)	U		82.0	"	"	"
<b>Vanadium (7440-62-2)</b>	<b>29.9</b>		4.9	"	"	"
<b>Zinc (7440-66-6)</b>	<b>25.6</b>	<b>L</b>	3.3	"	"	"

**Metals by EPA Method 7470A/7471A - CVAAS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6F3013  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.116g  
 %Solids: 60.72

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.1	1	06/12/06	06/14/06



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**Metals by EPA Method 6020 - ICP MS**

**Lab ID: 0605014-05**

**Station ID: Ouachita UP 5**

Batch: B6F0805  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 0.502g  
 %Solids: 60.72

Sample Qualifiers:

**Targets**

Analyte (CAS Number)	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.3	10	06/08/06	07/06/06
<b>Arsenic (7440-38-2)</b>	<b>2.1</b>		0.3	"	"	"
<b>Lead (7439-92-1)</b>	<b>6.7</b>		0.3	"	"	"
<b>Selenium (7782-49-2)</b>	<b>2.4</b>		0.3	"	"	"
Thallium (7440-28-0)	U		0.3	"	"	"



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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD**

**Lab ID: 0605014-05RE1**

**Station ID: Ouachita UP 5**

Batch: B6F1618  
 Sample Type: Solid

Date Collected: 05/17/06  
 Sample Wet Weight: 30.187g  
 %Solids: 60.72

Sample Qualifiers: **R6HTS**

**Surrogates**

Analyte	Result µg/kg dry	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: Tetrachloro-meta-xylene</i>	6.33		46.5	32-112	06/16/06	06/23/06
<i>Surr: Decachlorobiphenyl</i>	11.6		85.3	33-130	"	"

**Targets**

Analyte (CAS Number)	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aldrin (309-00-2)	U		0.5	1	06/16/06	06/23/06
alpha-BHC (319-84-6)	U		0.5	"	"	"
beta-BHC (319-85-7)	U		0.5	"	"	"
delta-BHC (319-86-8)	U		0.5	"	"	"
gamma-BHC (Lindane) (58-89-9)	U		0.5	"	"	"
Cyfluthrin (68359-37-5)	U		0.5	"	"	"
lambda-Cyhalothrin (91465-08-6)	U		0.5	"	"	"
4,4'-DDD (72-54-8)	U		0.5	"	"	"
4,4'-DDE (72-55-9)	U		0.5	"	"	"
4,4'-DDT (50-29-3)	U		0.5	"	"	"
Dieldrin (60-57-1)	U		0.5	"	"	"
Endosulfan I (959-98-8)	U		0.5	"	"	"
Endosulfan II (33213-65-9)	U		0.5	"	"	"
Endosulfan sulfate (1031-07-8)	U		0.5	"	"	"
Endrin (72-20-8)	U		0.5	"	"	"
Endrin aldehyde (7421-93-4)	U		0.5	"	"	"
Endrin ketone (53494-70-5)	U	RL	2.2	"	"	"
Esfenvalerate (66230-04-4)	U		0.5	"	"	"
Heptachlor (76-44-8)	U		0.5	"	"	"
Heptachlor epoxide (1024-57-3)	U		0.5	"	"	"
Methoxychlor (72-43-5)	U	R	0.5	"	"	"
Pendimethalin (40487-42-1)	U		136	"	"	"
Trifluralin (1582-09-8)	U		13.6	"	"	"



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**Chemistry Data Recorded for the Liquid Samples**

**Sample Type: Liquid**

**Batch:B6E1706**

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)
0605012-01	Coffee Creek 5	7.9	294	476	1878	7.2	<0.1	0
0605012-03	Field Duplicate 5	7.5	118	139	417	0.7	<0.1	0
0605012-05	Mossy Lake 5	8.1	199	389	1656	6.2	<0.1	0
0605012-07	Reference 5	7.5	112	140	418	0.7	<0.1	0

**Batch:B6E1805**

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)
0605014-01	Ouachita DN 5	6.8	28	20	93	0.6	<0.1	0
0605014-04	Ouachita UP 5	6.8	30	18	80	0.6	0.1	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)
B6E1706-BLK1	Control-5/12/06	8.2	89	64	291	<0.1	<0.1	0
B6E1805-BLK1	Control-5/12/06	8.2	89	64	291	<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: Liquid**

**Batch: B6E1702**

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
0605012-01	Coffee Creek 5	91	25	0	12.1*	NA	NA	1.730	2.212
0605012-03	Field Duplicate 5	100	25	50 *	5.6 *	5	6	1.730	4.419
0605012-05	Mossy Lake 5	100	25	10	9.5 *	9	6	1.730	3.201
0605012-07	Reference 5	100	25	30	5.3 *	7	6	1.730	5.963

**Batch: B6E1801**

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
0605014-01	Ouachita DN 5	100	25	0	13.9*	NA	NA	1.730	1.783
0605014-04	Ouachita UP 5	100	25	0	13.5*	NA	NA	1.730	1.737

**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
B6E1702-BLK1	Control-5/12/06	100	25	0	15.6	NA	NA	NA	NA
B6E1801-BLK1	Control-5/12/06	100	25	0	16.0	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: B6E1704**

**Equal Variance  
t-Test**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
0605012-01	Coffee Creek 5	73	25	70 *
0605012-03	Field Duplicate 5	98	25	33 *
0605012-05	Mossy Lake 5	100	25	93 *
0605012-07	Reference 5	100	25	20

t-Test	Sample t-Table Value
6.062	2.130
2.294	2.130
28.00	2.130
2.000	2.130

**Batch: B6E1803**

**Equal Variance  
t-Test**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
0605014-01	Ouachita DN 5	100	25	13
0605014-04	Ouachita UP 5	100	25	13 *

t-Test	Sample t-Table Value
2.000	2.130
4.000	2.130

**Quality Control**

**Equal Variance  
t-Test**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
B6E1704-BLK1	Control-5/12/06	95	25	0
B6E1803-BLK1	Control-5/12/06	98	25	0

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

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



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**Chemistry Data Recorded for the Solid Samples**

**Sample Type: Solid**

**Batch:B6E1707**

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)
0605012-02	Coffee Creek 5	7.7	216	235	961	7.2	<0.1	0
0605012-04	Field Duplicate 5	7.5	227	134	746	1.6	<0.1	0
0605012-06	Mossy Lake 5	7.8	136	177	894	6.9	<0.1	0
0605012-08	Reference 5	7.3	184	161	653	1.1	<0.1	0

**Batch:B6E1806**

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)
0605014-02	Ouachita DN 5	7.8	138	52	563	1.7	<0.1	0
0605014-05	Ouachita UP 5	7.6	120	46	550	2.3	<0.1	0

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

**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)
B6E1707-BLK1	Control-5/20/06	8.2	89	63	275	<0.1	<0.1	0
B6E1806-BLK1	Control-5/20/06	8.2	89	63	275	<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: B6E1703**

Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	Fishers Exact Test		Dunnett Table Value	T Stat
						b Value	Critical Fishers Value		
0605012-02	Coffee Creek 5	67	25	100 *	0 *	0	4	1.730	10.83
0605012-04	Field Duplicate 5	100	25	50	3.4 *	5	4	1.730	7.232
0605012-06	Mossy Lake 5	100	25	70 *	2.1 *	3	4	1.730	8.032
0605012-08	Reference 5	100	25	40	5.3 *	6	4	1.730	5.275

**Batch: B6E1802**

Sample Number	Station ID	Dissolved Oxygen %	Temp ±1° C	Mortality %	Young per Female	Fishers Exact Test		Dunnett Table Value	T Stat
						b Value	Critical Fishers Value		
0605014-02	Ouachita DN 5	100	25	80 *	1.4 *	2	4	1.730	8.403
0605014-05	Ouachita UP 5	100	25	100 *	0 *	0	4	1.730	10.83

**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
B6E1802-BLK1	Control-5/20/06	100	25	10	16.4	NA	NA	NA	NA
B6E1703-BLK1	Control-5/20/06	100	25	10	16.4	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: B6E1705**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
0605012-02	Coffee Creek 5	74	25	50 *
0605012-04	Field Duplicate 5	99	25	3
0605012-06	Mossy Lake 5	77	25	13 *
0605012-08	Reference 5	99	25	10

**Equal Variance  
t-Test**

t-Test	Sample t-Table Value
5.000	2.130
1.000	2.130
4.000	2.130
1.732	2.130

**Batch: B6E1804**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
0605014-02	Ouachita DN 5	100	25	13 *
0605014-05	Ouachita UP 5	100	25	10

**Equal Variance  
t-Test**

t-Test	Sample t-Table Value
4.000	2.130
2.000	2.130

**Quality Control**

**Batch: B6E1804**

Sample Number	Station ID	Dissolved Oxygen %	Temperature ±1° C	Organisms Affected(%) <sup>a</sup>
B6E1804-BLK1	Control-5/20/06	100	25	0
B6E1705-BLK1	Control-5/20/06	100	25	0

**Equal Variance  
t-Test**

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

<sup>a</sup> 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: B6E1901

Sample Type: Liquid

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	31.6		50.0	63.2	28-101
<i>Surr: Decachlorobiphenyl</i>	61.6		50.0	123	35-139

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 6/6/2006

**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

**LCS (B6E1901-BS2)**

Prepared: 5/19/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	33.2		50.0	66.4	28-101
<i>Surr: Decachlorobiphenyl</i>	55.3		50.0	111	35-139



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

**Batch: B6E1901**

**Sample Type: Liquid**

**LCS (B6E1901-BS2)**

Prepared: 5/19/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Aroclor-1016	449		20.0	500	89.8 70-130



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

**Batch: B6E2301**

**Sample Type: Solid**

**Blank (B6E2301-BLK1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	5.69		8.33	68.3	32-112
<i>Surr: Decachlorobiphenyl</i>	8.85		8.33	106	33-130

**Blank (B6E2301-BLK1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**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

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	8.13		8.33	97.6	32-112
<i>Surr: Decachlorobiphenyl</i>	8.61		8.33	103	33-130



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

**Batch: B6E2301**

**Sample Type: Solid**

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/6/2006

**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

**LCS (B6E2301-BS2)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	7.10		8.32	85.3	32-112
<i>Surr: Decachlorobiphenyl</i>	9.26		8.32	111	33-130

**LCS (B6E2301-BS2)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Aroclor-1016	31.8		3.3	41.6	76.4	70-130



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

Batch: B6E1701

Sample Type: Liquid

**Blank (B6E1701-BLK1)**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.71		5.00	74.2 39-117

**Blank (B6E1701-BLK1)**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**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	U		



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

**Batch: B6E1701**

**Sample Type: Liquid**

**LCS (B6E1701-BS1)**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	4.32		5.00	86.4	39-117

**LCS (B6E1701-BS1)**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Total PCBs	52.1			50.0	104	70-130

**Matrix Spike (B6E1701-MS1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.05		4.85	62.9	39-117

**Matrix Spike (B6E1701-MS1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Total PCBs	42.9			48.5		88.5	50-150



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

**Batch: B6E1701**

**Sample Type: Liquid**

**Matrix Spike Dup (B6E1701-MSD1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	3.99		5.00	79.8	39-117

**Matrix Spike Dup (B6E1701-MSD1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 5/22/2006

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Total PCBs	45.2			50.0		90.4	50-150	5.22	25



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

Batch: B6E1807

Sample Type: Liquid

**Blank (B6E1807-BLK1)**

Prepared: 5/18/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	4.03		5.00	80.6	39-117

**Blank (B6E1807-BLK1)**

Prepared: 5/18/2006 Analyzed: 5/22/2006

**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	U		



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

Batch: B6E1807

Sample Type: Liquid

**LCS (B6E1807-BS1)**

Prepared: 5/18/2006 Analyzed: 5/22/2006

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	Limit
<i>Surr: 2-Fluorobiphenyl</i>	4.19		5.00	83.8	39-117

**LCS (B6E1807-BS1)**

Prepared: 5/18/2006 Analyzed: 5/22/2006

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	Limit
Total PCBs	49.3			50.0	98.6	70-130



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

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	112		166	67.5	34-116

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Monochlorobiphenyls	U		6.6
Dichlorobiphenyls	U		6.6
Trichlorobiphenyls	U		6.6
Tetrachlorobiphenyls	U		13.3
Pentachlorobiphenyls	U		13.3
Hexachlorobiphenyls	U		13.3
Heptachlorobiphenyls	U		19.9
Octachlorobiphenyls	U		19.9
Nonachlorobiphenyls	U		26.6
Decachlorobiphenyls	U		33.2
Total PCBs	U		

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/7/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	118		167	70.7	34-116



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

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/7/2006

**Targets**

ANALYTE	Result μg/kg dry	Analyte Reporting Qualifiers	Reporting 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	U		



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

Batch: B6E2405

Sample Type: Solid

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	99.8		166	60.1	34-116

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Total PCBs	1,120			1,660	67.5#	70-130

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	179		253	70.8	34-116

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Total PCBs	1,930			2,530		76.3	50-150



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

**Batch: B6E2405**

**Sample Type: Solid**

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorobiphenyl</i>	183		253	72.3	34-116

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/7/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit
Total PCBs	2,110			2,530		83.4	50-150	8.91	25



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**Blank (B6F0602-BLK1)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		5.0
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	2.0		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 (B6F0602-BS1)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
Aluminum	49.3		5.0	50.0	98.6 75-125
Arsenic	49.3		5.0	50.0	98.6 75-125



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**LCS (B6F0602-BS1)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets (Continued)**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Barium	50.3		0.5	50.0	101 75-125
Beryllium	50.8		0.2	50.0	102 75-125
Cadmium	49.7		0.2	50.0	99.4 75-125
Calcium	50.7		7.5	50.0	101 75-125
Chromium	50.9		0.5	50.0	102 75-125
Cobalt	50.5		1.0	50.0	101 75-125
Copper	51.3		1.0	50.0	103 75-125
Iron	50.2		1.2	50.0	100 75-125
Lead	50.9		1.5	50.0	102 75-125
Magnesium	50.6		7.5	50.0	101 75-125
Manganese	50.6		0.2	50.0	101 75-125
Nickel	51.0		1.0	50.0	102 75-125
Potassium	98.5		50.0	100	98.5 75-125
Selenium	53.2		5.0	50.0	106 75-125
Silver	35.2		0.5	50.0	70.4# 75-125
Thallium	50.1		5.0	50.0	100 75-125
Sodium	50.9		25.0	50.0	102 75-125
Vanadium	50.1		1.5	50.0	100 75-125
Zinc	51.1		1.0	50.0	102 75-125

**LCS (B6F0602-BS2)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Aluminum	10.0		5.0	10.0	100 75-125
Arsenic	9.2		5.0	10.0	92.0 75-125
Barium	10.3		0.5	10.0	103 75-125
Beryllium	10.3		0.2	10.0	103 75-125



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**LCS (B6F0602-BS2)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets (Continued)**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Cadmium	10.2		0.2	10.0	102 75-125
Calcium	11.3		7.5	10.0	113 75-125
Chromium	9.1		0.5	10.0	91.0 75-125
Cobalt	10.2		1.0	10.0	102 75-125
Copper	10.1		1.0	10.0	101 75-125
Iron	9.1		1.2	10.0	91.0 75-125
Lead	8.9		1.5	10.0	89.0 75-125
Magnesium	9.4		7.5	10.0	94.0 75-125
Manganese	9.1		0.2	10.0	91.0 75-125
Nickel	8.9		1.0	10.0	89.0 75-125
Potassium	U		50.0	20.0	NR # 75-125
Selenium	11.6		5.0	10.0	116 75-125
Silver	9.0		0.5	10.0	90.0 75-125
Thallium	7.8		5.0	10.0	78.0 75-125
Sodium	U		25.0	10.0	NR # 75-125
Vanadium	8.9		1.5	10.0	89.0 75-125
Zinc	9.3		1.0	10.0	93.0 75-125

**Matrix Spike (B6F0602-MS1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aluminum	3,110		15.4	154	3,260	NR # 75-125
Arsenic	149		15.4	154		96.8 75-125
Barium	242		1.5	154	88.2	99.9 75-125
Beryllium	162		0.8	154		105 75-125
Cadmium	151		0.8	154	0.9	97.5 75-125
Calcium	11,900		23.0	154	12,200	NR # 75-125



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**Matrix Spike (B6F0602-MS1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets (Continued)**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Chromium	168		1.5	154	13.0	101 75-125
Cobalt	158		3.1	154	3.1	101 75-125
Copper	173		3.1	154	16.0	102 75-125
Iron	6,530		3.8	154	6,420	71.4# 75-125
Lead	167		4.6	154	11.7	101 75-125
Magnesium	425		23.0	154	287	89.6 75-125
Manganese	523		0.8	154	381	92.2 75-125
Nickel	159		3.1	154	4.5	100 75-125
Potassium	439		154	307	153	93.2 75-125
Selenium	157		15.4	154		102 75-125
Silver	107		1.5	154		69.5# 75-125
Thallium	157		15.4	154		102 75-125
Sodium	339		76.8	154	187	98.7 75-125
Vanadium	165		4.6	154	11.7	99.5 75-125
Zinc	181		3.1	154	28.9	98.8 75-125

**Matrix Spike Dup (B6F0602-MSD1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	3,300		15.6	156	3,260	25.6# 75-125	5.93	20
Arsenic	147		15.6	156		94.2 75-125	1.35	20
Barium	250		1.6	156	88.2	104 75-125	3.25	20
Beryllium	163		0.8	156		104 75-125	0.62	20
Cadmium	156		0.8	156	0.9	99.4 75-125	3.26	20
Calcium	12,300		23.4	156	12,200	64.1# 75-125	3.31	20
Chromium	168		1.6	156	13.0	99.4 75-125	0.00	20
Cobalt	161		3.1	156	3.1	101 75-125	1.88	20



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**Matrix Spike Dup (B6F0602-MSD1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets (Continued)**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Copper	177		3.1	156	16.0	103 75-125	2.29	20
Iron	6,430		3.9	156	6,420	6.41# 75-125	1.54	20
Lead	167		4.7	156	11.7	99.6 75-125	0.00	20
Magnesium	448		23.4	156	287	103 75-125	5.27	20
Manganese	533		0.8	156	381	97.4 75-125	1.89	20
Nickel	159		3.1	156	4.5	99.0 75-125	0.00	20
Potassium	456		156	312	153	97.1 75-125	3.80	20
Selenium	160		15.6	156		103 75-125	1.89	20
Silver	111		1.6	156		71.2# 75-125	3.67	20
Thallium	152		15.6	156		97.4 75-125	3.24	20
Sodium	345		78.0	156	187	101 75-125	1.75	20
Vanadium	168		4.7	156	11.7	100 75-125	1.80	20
Zinc	184		3.1	156	28.9	99.4 75-125	1.64	20

**Reference (B6F0602-SRM1)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Aluminum	267		99.8	309		86.4 62-137	NR	
Arsenic	636		20.0	930		68.4 66-134	NR	
Barium	5.1		2.0	5.30		96.2 47-152	NR	
Beryllium	20.8		5.0	18.8		111 82-118	NR	
Cadmium	40.6		5.0	41.6		97.6 77-122	NR	
Calcium	193,000		150	184,000		105 78-122	NR	
Chromium	105		10.0	96.5		109 81-119	NR	
Cobalt	124		20.0	140		88.6 82-118	NR	
Copper	6,560		20.0	6,680		98.2 86-133	NR	
Iron	16,000		25.0	21,000		76.2# 80-120	NR	



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**Metals by EPA Method 6010B - ICP - Quality Control**

**Batch: B6F0602**

**Sample Type: Solid**

**Reference (B6F0602-SRM1)**

Prepared: 6/8/2006 Analyzed: 6/15/2006

**Targets (Continued)**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Lead	213		29.9	224		95.1 75-125	NR
Magnesium	119,000		150	113,000		105 86-132	NR
Manganese	225		5.0	201		112 84-116	NR
Nickel	46.9		20.0	56.8		82.6 77-161	NR
Potassium	U		998	102		NR # 10-368	NR #
Selenium	U		99.8	37.0		NR # 48-152	NR #
Silver	24.7		10.0	20.9		118 63-136	NR
Thallium	31.3		20.0	38.1		82.2 65-136	NR
Sodium	U		499	92.8		NR # 10-298	NR #
Vanadium	68.2		29.9	65.8		104 81-119	NR
Zinc	120		20.0	175		68.6# 73-127	NR



**Environmental Protection Agency**  
**Region 6 Laboratory**

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**Metals by EPA Method 6020 - ICP MS - Quality Control**

**Batch: B6F0805**

**Sample Type: Solid**

**Blank (B6F0805-BLK1)**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit
Antimony	U		0.1
Arsenic	U		0.1
Lead	U		0.1
Selenium	U		0.1
Thallium	U		0.1

**LCS (B6F0805-BS1)**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC Limits
Antimony	51.4		0.1	50.0	103 85-115
Arsenic	48.9		0.1	50.0	97.8 85-115
Lead	50.0		0.1	50.0	100 85-115
Selenium	47.9		0.1	50.0	95.8 85-115
Thallium	46.4		0.1	50.0	92.8 85-115

**LCS (B6F0805-BS2)**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC Limits
Antimony	10.8		0.1	10.0	108 85-115
Arsenic	10.0		0.1	10.0	100 85-115
Lead	9.7		0.1	10.0	97.0 85-115
Selenium	10.0		0.1	10.0	100 85-115
Thallium	9.0		0.1	10.0	90.0 85-115



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**Region 6 Laboratory**

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**Metals by EPA Method 6020 - ICP MS - Quality Control**

**Batch: B6F0805**

**Sample Type: Solid**

**Matrix Spike (B6F0805-MS1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Antimony	50.9		0.3	154		33.1# 75-125
Arsenic	153		0.3	154	1.2	98.6 75-125
Lead	165		0.3	154	13.8	98.2 75-125
Selenium	143		0.3	154	3.4	90.6 75-125
Thallium	141		0.3	154		91.6 75-125

**Matrix Spike Dup (B6F0805-MSD1)**

**Source: 0605012-04**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Antimony	50.7		0.3	156		32.5# 75-125	0.39	20
Arsenic	156		0.3	156	1.2	99.2 75-125	1.94	20
Lead	165		0.3	156	13.8	96.9 75-125	0.00	20
Selenium	145		0.3	156	3.4	90.8 75-125	1.39	20
Thallium	142		0.3	156		91.0 75-125	0.71	20

**Reference (B6F0805-SRM1)**

Prepared: 6/8/2006 Analyzed: 7/6/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Antimony	156		4.0	213		73.2 61-139	NR	
Arsenic	693		4.0	930		74.5 66-134	NR	
Lead	211		4.0	224		94.2 75-125	NR	
Selenium	24.0		4.0	37.0		64.9 48-152	NR	
Thallium	43.1		4.0	38.1		113 65-136	NR	



**Environmental Protection Agency**  
**Region 6 Laboratory**

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

**Batch: B6F3013**

**Sample Type: Solid**

**Blank (B6F3013-BLK1)**

Prepared: 6/12/2006 Analyzed: 6/14/2006

**Targets**

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

**LCS (B6F3013-BS1)**

Prepared: 6/12/2006 Analyzed: 6/14/2006

**Targets**

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

**Matrix Spike (B6F3013-MS1)**

**Source: 0605012-04**

Prepared: 6/12/2006 Analyzed: 6/14/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Mercury	1.5		0.1	0.555	0.9	108 75-125

**Matrix Spike Dup (B6F3013-MSD1)**

**Source: 0605012-04**

Prepared: 6/12/2006 Analyzed: 6/14/2006

**Targets**

ANALYTE	Result mg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD Limit
Mercury	1.5		0.1	0.621	0.9	96.6 75-125	0.00 20



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

**Batch: B6F3013**

**Sample Type: Solid**

**Reference (B6F3013-SRM1)**

Prepared: 6/12/2006 Analyzed: 6/14/2006

**Targets**

ANALYTE	Result mg/kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Mercury	7.8		1.5	12.3	63.4	63-137	NR



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

Batch: B6E1701

Sample Type: Liquid

**Blank (B6E1701-BLK1)**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	490		500	98.0	53-128
<i>Surr: Tributyl phosphate</i>	523		500	105	49-119

**Blank (B6E1701-BLK1)**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Targets**

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

**LCS (B6E1701-BS1)**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	540		500	108	53-128
<i>Surr: Tributyl phosphate</i>	592		500	118	49-119

**LCS (B6E1701-BS1)**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**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: B6E1701

Sample Type: Liquid

**LCS (B6E1701-BS1)**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Targets (Continued)**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Atrazine	498		10.0	500	99.6 55-124
Diazinon	472		10.0	500	94.4 70-130
Methyl parathion	545		10.0	500	109 70-130
Molinate	461		100	500	92.2 70-130
Carbofuran	433		10.0	500	86.6 70-130

**Matrix Spike (B6E1701-MS1)**

Source: 0605012-03

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC Limits
<i>Surr: Triphenyl phosphate</i>	405		485	83.5 53-128
<i>Surr: Tributyl phosphate</i>	399		485	82.3 49-119

**Matrix Spike (B6E1701-MS1)**

Source: 0605012-03

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Targets**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Atrazine	380		9.7	485	19.3	74.4 30-132
Diazinon	322		9.7	485		66.4# 70-130
Methyl parathion	392		9.7	485		80.8 70-130
Molinate	345		97.0	485		71.1 70-130
Carbofuran	291		9.7	485		60.0# 70-130



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

**Batch: B6E1701**

**Sample Type: Liquid**

**Matrix Spike Dup (B6E1701-MSD1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	543		500	109	53-128
<i>Surr: Tributyl phosphate</i>	524		500	105	49-119

**Matrix Spike Dup (B6E1701-MSD1)**

**Source: 0605012-03**

Prepared: 5/17/2006 Analyzed: 6/1/2006

**Targets**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	REC Limits	RPD RPD	RPD Limit
Atrazine	486		10.0	500	19.3	93.3	30-132	24.5	30
Diazinon	443		10.0	500		88.6	70-130	31.6 #	30
Methyl parathion	513		10.0	500		103	70-130	26.7	30
Molinate	443		100	500		88.6	70-130	24.9	30
Carbofuran	406		10.0	500		81.2	70-130	33.0 #	30



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

Batch: B6E1807

Sample Type: Liquid

**Blank (B6E1807-BLK1)**

Prepared: 5/18/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	566		500	113	53-128
<i>Surr: Tributyl phosphate</i>	573		500	115	49-119

**Blank (B6E1807-BLK1)**

Prepared: 5/18/2006 Analyzed: 6/1/2006

**Targets**

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

**LCS (B6E1807-BS1)**

Prepared: 5/18/2006 Analyzed: 6/1/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	572		500	114	53-128
<i>Surr: Tributyl phosphate</i>	577		500	115	49-119

**LCS (B6E1807-BS1)**

Prepared: 5/18/2006 Analyzed: 6/1/2006

**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: B6E1807

Sample Type: Liquid

**LCS (B6E1807-BS1)**

Prepared: 5/18/2006 Analyzed: 6/1/2006

**Targets (Continued)**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Atrazine	488		10.0	500	97.6 55-124
Diazinon	463		10.0	500	92.6 70-130
Methyl parathion	521		10.0	500	104 70-130
Molinate	444		100	500	88.8 70-130
Carbofuran	376		10.0	500	75.2 70-130



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

Batch: B6E2301

Sample Type: Solid

**Blank (B6E2301-BLK1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	47.4		83.3	56.9	41-130
<i>Surr: Tributyl phosphate</i>	73.3		83.3	88.0	49-134

**Blank (B6E2301-BLK1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
Atrazine	U		1.7
Diazinon	U		1.7
Methyl parathion	U		1.7
Molinate	U		16.7
Carbofuran	U		1.7

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	65.3		83.3	78.4	41-130
<i>Surr: Tributyl phosphate</i>	88.9		83.3	107	49-134

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit
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**Nitrogen-Phosphorous Pesticides by EPA Method 8141A - GC/NPD - Quality Control**

Batch: B6E2301

Sample Type: Solid

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Reporting Limit
Atrazine	U		1.7
Diazinon	U		1.7
Methyl parathion	U		1.7
Molinate	U		16.7
Carbofuran	U		1.7

**LCS (B6E2301-BS1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	REC Limits
<i>Surr: Triphenyl phosphate</i>	51.0		83.3	61.2	41-130
<i>Surr: Tributyl phosphate</i>	73.5		83.3	88.2	49-134

**LCS (B6E2301-BS1)**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC %REC	REC Limits
Atrazine	71.5		1.7	83.3	85.8	70-130
Diazinon	52.8		1.7	83.3	63.4#	70-130
Methyl parathion	77.6		1.7	83.3	93.2	70-130
Molinate	55.4		16.7	83.3	66.5#	70-130
Carbofuran	61.9		1.7	83.3	74.3	70-130



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

**Batch: B6E2301**

**Sample Type: Solid**

**Matrix Spike (B6E2301-MS1)**

**Source: 0605012-08**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	71.4		126	56.7	41-130
<i>Surr: Tributyl phosphate</i>	128		126	102	49-134

**Matrix Spike (B6E2301-MS1)**

**Source: 0605012-08**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Atrazine	89.6		2.5	126		71.1	70-130
Diazinon	83.8		2.5	126		66.5#	70-130
Methyl parathion	126		2.5	126		100	70-130
Molinate	78.7		25.2	126		62.5#	70-130
Carbofuran	118		2.5	126		93.7	70-130

**Matrix Spike Dup (B6E2301-MSD1)**

**Source: 0605012-08**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Triphenyl phosphate</i>	70.2		126	55.7	41-130
<i>Surr: Tributyl phosphate</i>	120		126	95.2	49-134

**Matrix Spike Dup (B6E2301-MSD1)**

**Source: 0605012-08**

Prepared: 5/23/2006 Analyzed: 6/6/2006

**Targets**

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

Batch: B6E2301

Sample Type: Solid

Matrix Spike Dup (B6E2301-MSD1)

Source: 0605012-08

Prepared: 5/23/2006 Analyzed: 6/6/2006

Targets (Continued)

Table with 8 columns: ANALYTE, Result (µg/kg dry), Analyte Reporting Qualifiers, Reporting Limit, Spike Level, Source Result, %REC Limits, RPD Limit. Rows include Atrazine, Diazinon, Methyl parathion, Molinate, and Carbofuran.



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

Batch: B6E1901

Sample Type: Liquid

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	27.4		50.0	54.8	28-101
<i>Surr: Decachlorobiphenyl</i>	47.2		50.0	94.4	35-139

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**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: B6E1901

Sample Type: Liquid

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets (Continued)**

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

**LCS (B6E1901-BS1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	22.8		50.0	45.6	28-101
<i>Surr: Decachlorobiphenyl</i>	46.0		50.0	92.0	35-139

**LCS (B6E1901-BS1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets**

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aldrin	35.3		10.0	50.0	70.6	60-112
alpha-BHC	41.6		10.0	50.0	83.2	58-120
beta-BHC	42.8		10.0	50.0	85.6	61-120
delta-BHC	47.0		10.0	50.0	94.0	59-131
gamma-BHC (Lindane)	44.4		10.0	50.0	88.8	61-120
Cyfluthrin	53.3		2.0	50.0	107	53-145
lambda-Cyhalothrin	50.2		1.0	50.0	100	68-127
4,4'-DDD	47.8		6.0	50.0	95.6	70-123
4,4'-DDE	34.1		10.0	50.0	68.2	63-116
4,4'-DDT	50.7		1.0	50.0	101	58-131
Dieldrin	45.4		10.0	50.0	90.8	67-123
Endosulfan I	44.4		10.0	50.0	88.8	66-120



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

Batch: B6E1901

Sample Type: Liquid

**LCS (B6E1901-BS1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets (Continued)**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Endosulfan II	47.8		10.0	50.0	95.6 41-136
Endosulfan sulfate	48.8		10.0	50.0	97.6 67-121
Endrin	50.4		10.0	50.0	101 67-128
Endrin aldehyde	42.8		10.0	50.0	85.6 45-131
Endrin ketone	53.4		10.0	50.0	107 65-124
Esfenvalerate	51.5		10.0	50.0	103 62-133
Heptachlor	37.1		3.0	50.0	74.2 60-118
Heptachlor epoxide	43.9		10.0	50.0	87.8 65-121
Methoxychlor	62.6		10.0	50.0	125# 76-122
Pendimethalin	51.9		500	50.0	104 66-119
Trifluralin	42.6		50.0	50.0	85.2 60-122

**Matrix Spike (B6E1901-MS1)**

Source: 0605012-03

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC %REC Limits
Surr: Tetrachloro-meta-xylene	17.7		47.2	37.5 28-101
Surr: Decachlorobiphenyl	41.0		47.2	86.9 35-139

**Matrix Spike (B6E1901-MS1)**

Source: 0605012-03

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits
Aldrin	29.8		9.4	47.2		63.1 48-98
alpha-BHC	27.8		9.4	47.2		58.9# 70-130
beta-BHC	26.9		9.4	47.2		57.0# 70-130



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

**Batch: B6E1901**

**Sample Type: Liquid**

**Matrix Spike (B6E1901-MS1)**

**Source: 0605012-03**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets (Continued)**

ANALYTE	Result ng/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
delta-BHC	28.7		9.4	47.2	60.8	59-131
gamma-BHC (Lindane)	28.9		9.4	47.2	61.2	33-115
Cyfluthrin	45.8		1.9	47.2	97.0	57-135
lambda-Cyhalothrin	42.4		0.9	47.2	89.8	60-126
4,4'-DDD	31.2		5.7	47.2	66.1	48-122
4,4'-DDE	32.1		9.4	47.2	68.0	54-104
4,4'-DDT	43.9		0.9	47.2	93.0	32-135
Dieldrin	30.6		9.4	47.2	64.8	51-109
Endosulfan I	28.4		9.4	47.2	60.2	48-112
Endosulfan II	31.0		9.4	47.2	65.7	41-136
Endosulfan sulfate	31.3		9.4	47.2	66.3#	70-130
Endrin	34.5		9.4	47.2	73.1	54-120
Endrin aldehyde	25.5		9.4	47.2	54.0	45-131
Endrin ketone	34.4		9.4	47.2	72.9	70-130
Esfenvalerate	44.6		9.4	47.2	94.5	60-132
Heptachlor	35.1		2.8	47.2	74.4	41-115
Heptachlor epoxide	28.7		9.4	47.2	60.8#	70-130
Methoxychlor	40.2		9.4	47.2	85.2	70-130
Pendimethalin	38.4		472	47.2	81.4	47-137
Trifluralin	31.3		47.2	47.2	66.3	45-132

**Matrix Spike Dup (B6E1901-MSD1)**

**Source: 0605012-03**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Surrogates**

ANALYTE	Result ng/L	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	19.7		47.9	41.1	28-101
<i>Surr: Decachlorobiphenyl</i>	42.0		47.9	87.7	35-139



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

Batch: B6E1901

Sample Type: Liquid

**Matrix Spike Dup (B6E1901-MSD1)**

Source: 0605012-03

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets**

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Aldrin	31.2		9.6	47.9	65.1	48-98	4.59	20
alpha-BHC	35.5		9.6	47.9	74.1	70-130	24.3	30
beta-BHC	35.6		9.6	47.9	74.3	70-130	27.8	30
delta-BHC	37.5		9.6	47.9	78.3	59-131	26.6	30
gamma-BHC (Lindane)	37.0		9.6	47.9	77.2	33-115	24.6 #	21
Cyfluthrin	47.6		1.9	47.9	99.4	57-135	3.85	26
lambda-Cyhalothrin	46.3		1.0	47.9	96.7	60-126	8.79	23
4,4'-DDD	37.1		5.7	47.9	77.5	48-122	17.3	25
4,4'-DDE	34.8		9.6	47.9	72.7	54-104	8.07	22
4,4'-DDT	50.3		1.0	47.9	105	32-135	13.6	27
Dieldrin	38.4		9.6	47.9	80.2	51-109	22.6 #	18
Endosulfan I	35.5		9.6	47.9	74.1	48-112	22.2	29
Endosulfan II	37.8		9.6	47.9	78.9	41-136	19.8	30
Endosulfan sulfate	42.0		9.6	47.9	87.7	70-130	29.2	30
Endrin	44.8		9.6	47.9	93.5	54-120	26.0 #	18
Endrin aldehyde	34.7		9.6	47.9	72.4	45-131	30.6 #	30
Endrin ketone	46.2		9.6	47.9	96.5	70-130	29.3	30
Esfenvalerate	49.2		9.6	47.9	103	60-132	9.81	32
Heptachlor	39.6		2.9	47.9	82.7	41-115	12.0	28
Heptachlor epoxide	37.1		9.6	47.9	77.5	70-130	25.5	30
Methoxychlor	52.3		9.6	47.9	109	70-130	26.2	30
Pendimethalin	45.9		479	47.9	95.8	47-137	17.8	28
Trifluralin	37.9		47.9	47.9	79.1	45-132	19.1	28



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

Batch: B6F1618

Sample Type: Solid

**Blank (B6F1618-BLK1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	4.10		8.32	49.3	32-112
<i>Surr: Decachlorobiphenyl</i>	6.81		8.32	81.9	33-130

**Blank (B6F1618-BLK1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**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: B6F1618

Sample Type: Solid

**Blank (B6F1618-BLK1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets (Continued)**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Limit
Pendimethalin	U		82.9
Trifluralin	U		8.3

**Blank (B6F1618-BLK2)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	5.78		8.33	69.4	32-112
<i>Surr: Decachlorobiphenyl</i>	9.21		8.33	111	33-130

**Blank (B6F1618-BLK2)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	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



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

Batch: B6F1618

Sample Type: Solid

**Blank (B6F1618-BLK2)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets (Continued)**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Reporting Limit
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
Pendimethalin	U		83.0
Trifluralin	U		8.3

**LCS (B6F1618-BS1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	2.97		8.31	35.7	32-112
<i>Surr: Decachlorobiphenyl</i>	7.94		8.31	95.5	33-130

**LCS (B6F1618-BS1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC %REC	REC Limits
Aldrin	5.2		0.3	8.31	62.6	44-119
alpha-BHC	4.9		0.3	8.31	59.0	49-110
beta-BHC	5.3		0.3	8.31	63.8	52-120



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

Batch: B6F1618

Sample Type: Solid

**LCS (B6F1618-BS1)**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
delta-BHC	7.6		0.3	8.31	91.5 54-123
gamma-BHC (Lindane)	5.2		0.3	8.31	62.6 51-118
Cyfluthrin	9.2		0.3	8.31	111 70-130
lambda-Cyhalothrin	6.9		0.3	8.31	83.0 70-130
4,4'-DDD	8.9		0.3	8.31	107 62-125
4,4'-DDE	5.6		0.3	8.31	67.4 49-115
4,4'-DDT	9.8		0.3	8.31	118 69-136
Dieldrin	7.4		0.3	8.31	89.0 55-121
Endosulfan I	6.9		0.3	8.31	83.0 54-118
Endosulfan II	7.8		0.3	8.31	93.9 60-120
Endosulfan sulfate	8.1		0.3	8.31	97.5 67-120
Endrin	7.6		0.3	8.31	91.5 67-126
Endrin aldehyde	6.4		0.3	8.31	77.0 33-110
Endrin ketone	8.3		0.3	8.31	99.9 67-131
Esfenvalerate	7.4		0.3	8.31	89.0 70-130
Heptachlor	4.9		0.3	8.31	59.0 48-129
Heptachlor epoxide	6.4		0.3	8.31	77.0 51-120
Methoxychlor	9.6		0.3	8.31	116 72-136
Pendimethalin	7.0		82.8	8.31	84.2 70-130
Trifluralin	5.1		8.3	8.31	61.4# 70-130

**Matrix Spike (B6F1618-MS1)**

Source: 0605012-08RE1

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates**

ANALYTE	Result μg/kg dry	Analyte Qualifier	Spike Level	%REC %REC Limits
Surr: Tetrachloro-meta-xylene	6.83		12.6	54.2 32-112
Surr: Decachlorobiphenyl	9.77		12.6	77.5 33-130



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

**Batch: B6F1618**

**Sample Type: Solid**

**Matrix Spike (B6F1618-MS1)**

**Source: 0605012-08RE1**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Aldrin	11.2		0.5	12.6	88.9	33-122
alpha-BHC	10.7		0.5	12.6	84.9	49-110
beta-BHC	9.9		0.5	12.6	78.6	52-120
delta-BHC	13.1		0.5	12.6	104	54-123
gamma-BHC (Lindane)	11.5		0.5	12.6	91.3	30-117
Cyfluthrin	13.6		0.5	12.6	108	70-130
lambda-Cyhalothrin	9.9		0.5	12.6	78.6	70-130
4,4'-DDD	12.6		0.5	12.6	100	62-125
4,4'-DDE	9.8		0.5	12.6	77.8	49-115
4,4'-DDT	14.9		0.5	12.6	118	41-134
Dieldrin	13.1		0.5	12.6	104	36-126
Endosulfan I	12.3		0.5	12.6	97.6	54-118
Endosulfan II	12.9		0.5	12.6	102	60-120
Endosulfan sulfate	11.5		0.5	12.6	91.3	67-120
Endrin	13.0		0.5	12.6	103	39-151
Endrin aldehyde	8.7		0.5	12.6	69.0	33-110
Endrin ketone	14.0		0.5	12.6	111	67-131
Esfenvalerate	11.4		0.5	12.6	90.5	70-130
Heptachlor	11.1		0.5	12.6	88.1	30-112
Heptachlor epoxide	13.7		0.5	12.6	109	51-120
Methoxychlor	13.2		0.5	12.6	105	72-136
Pendimethalin	12.5		126	12.6	99.2	70-130
Trifluralin	11.1		12.6	12.6	88.1	70-130

**Matrix Spike Dup (B6F1618-MSD1)**

**Source: 0605012-08RE1**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC Limits
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**Organochlorine Pesticides by EPA Method 8081A - GC/ECD - Quality Control**

**Batch: B6F1618**

**Sample Type: Solid**

**Matrix Spike Dup (B6F1618-MSD1)**

**Source: 0605012-08RE1**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Surrogates (Continued)**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: Tetrachloro-meta-xylene</i>	6.52		12.5	52.2	32-112
<i>Surr: Decachlorobiphenyl</i>	14.7		12.5	118	33-130

**Matrix Spike Dup (B6F1618-MSD1)**

**Source: 0605012-08RE1**

Prepared: 6/16/2006 Analyzed: 6/23/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit
Aldrin	11.7		0.5	12.5		93.6	33-122	4.37	57
alpha-BHC	11.1		0.5	12.5		88.8	49-110	3.67	30
beta-BHC	12.3		0.5	12.5		98.4	52-120	21.6	30
delta-BHC	13.5		0.5	12.5		108	54-123	3.01	30
gamma-BHC (Lindane)	12.9		0.5	12.5		103	30-117	11.5	29
Cyfluthrin	13.0		0.5	12.5		104	70-130	4.51	30
lambda-Cyhalothrin	9.9		0.5	12.5		79.2	70-130	0.00	30
4,4'-DDD	13.9		0.5	12.5		111	62-125	9.81	30
4,4'-DDE	9.8		0.5	12.5		78.4	49-115	0.00	30
4,4'-DDT	9.7		0.5	12.5		77.6	41-134	42.3 #	27
Dieldrin	12.3		0.5	12.5		98.4	36-126	6.30	28
Endosulfan I	12.8		0.5	12.5		102	54-118	3.98	30
Endosulfan II	12.5		0.5	12.5		100	60-120	3.15	30
Endosulfan sulfate	11.8		0.5	12.5		94.4	67-120	2.58	30
Endrin	13.3		0.5	12.5		106	39-151	2.28	18
Endrin aldehyde	8.3		0.5	12.5		66.4	33-110	4.71	30
Endrin ketone	12.3		0.5	12.5		98.4	67-131	12.9	30
Esfenvalerate	10.1		0.5	12.5		80.8	70-130	12.1	30
Heptachlor	12.3		0.5	12.5		98.4	30-112	10.3	26
Heptachlor epoxide	13.2		0.5	12.5		106	51-120	3.72	30
Methoxychlor	8.8		0.5	12.5		70.4#	72-136	40.0 #	30



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

Batch: B6F1618

Sample Type: Solid

### Matrix Spike Dup (B6F1618-MSD1)

Source: 0605012-08RE1

Prepared: 6/16/2006 Analyzed: 6/23/2006

### Targets (Continued)

ANALYTE	Result μg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Pendimethalin	12.6		125	12.5	101	70-130	0.80	30
Trifluralin	13.7		12.5	12.5	110	70-130	21.0	30



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**Percent Solids - Quality Control**

**Duplicate (B6E3001-DUP1)**

Source: 0605014-05

Prepared: 5/23/2006 Analyzed: 5/30/2006

**Targets**

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
% Solids	60.91				60.72		0.31	20



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

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	153		250	61.2	26-104
<i>Surr: Phenol-d5</i>	164		250	65.6	29-107
<i>Surr: 2-Chlorophenol-d4</i>	169		250	67.6	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	97.2		166	58.6	26-98
<i>Surr: Nitrobenzene-d5</i>	107		166	64.5	26-109
<i>Surr: 2-Fluorobiphenyl</i>	113		166	68.1	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	212		250	84.8	29-125
<i>Surr: Terphenyl-d14</i>	154		166	92.8	41-141

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**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	177		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		66.6
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: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result	Analyte Reporting Qualifiers	Limit
Bis(2-chloroisopropyl)ether	U		133
Bis(2-ethylhexyl)phthalate	U		66.6
4-Bromophenyl phenyl ether	U		133
Butyl benzyl phthalate	U		66.6
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		66.6
2,4-Dimethylphenol	U		33.3
Dimethyl phthalate	U		66.6
2,4-Dinitrophenol	U		666
2,4-Dinitrotoluene	U		133
2,6-Dinitrotoluene	U		133
4,6-Dinitro-2-methylphenol	U		666
Di-n-butyl phthalate	U		66.6
Di-n-octyl phthalate	U		66.6
1,2-Diphenylhydrazine	U		13.3
Fluoranthene	U		33.3



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

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result	Analyte Reporting Qualifiers	Reporting Limit μg/kg dry
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		33.3
2-Methylnaphthalene	U		33.3
2-Methylphenol	U		66.6
3 &/or 4-Methylphenol	U		133
Naphthalene	U		33.3
2-Nitroaniline	U		266
3-Nitroaniline	U		266
4-Nitroaniline	U		266
Nitrobenzene	U		133
2-Nitrophenol	U		133
4-Nitrophenol	U		399
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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**Region 6 Laboratory**

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

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	176		250	70.4	26-104
<i>Surr: Phenol-d5</i>	179		250	71.6	29-107
<i>Surr: 2-Chlorophenol-d4</i>	189		250	75.6	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	127		167	76.0	26-98
<i>Surr: Nitrobenzene-d5</i>	125		167	74.9	26-109
<i>Surr: 2-Fluorobiphenyl</i>	125		167	74.9	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	202		250	80.8	29-125
<i>Surr: Terphenyl-d14</i>	140		167	83.8	41-141

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/6/2006

**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: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result	Analyte Reporting μg/kg dryQualifiers	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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**Semivolatiles by EPA Method 8270 - GC/MS - Quality Control**

Batch: B6E2405

Sample Type: Solid

**Blank (B6E2405-BLK2)**

Prepared: 6/2/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result	Analyte Reporting μg/kg dryQualifiers	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		33.3
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: B6E2405

Sample Type: Solid

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	150		249	60.2	26-104
<i>Surr: Phenol-d5</i>	159		249	63.9	29-107
<i>Surr: 2-Chlorophenol-d4</i>	164		249	65.9	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	99.8		166	60.1	26-98
<i>Surr: Nitrobenzene-d5</i>	104		166	62.7	26-109
<i>Surr: 2-Fluorobiphenyl</i>	110		166	66.3	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	215		249	86.3	29-125
<i>Surr: Terphenyl-d14</i>	150		166	90.4	41-141

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC %REC	%REC Limits
Acenaphthene	107		33.3	166	64.5	38-99
Acenaphthylene	112		33.3	166	67.5	45-105
Acetophenone	108		133	166	65.1#	70-130
Anthracene	127		33.3	166	76.5	70-130
Atrazine	153		133	166	92.2	70-130
Benzaldehyde	192		133	166	116	70-130
Benzoic acid	233		133	166	140#	0-110
Benzo (a) anthracene	142		33.3	166	85.5	70-130
Benzo (a) pyrene	144		33.3	166	86.7	70-130
Benzo (b) fluoranthene	139		33.3	166	83.7	45-115
Benzo (g,h,i) perylene	128		33.3	166	77.1	40-125
Benzo (k) fluoranthene	143		33.3	166	86.1	45-125
Benzyl alcohol	116		66.5	166	69.9	20-125
1,1'-Biphenyl	112		133	166	67.5#	70-130
Bis(2-chloroethoxy)methane	103		133	166	62.0	45-110
Bis(2-chloroethyl)ether	97.1		133	166	58.5	40-105



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

Batch: B6E2405

Sample Type: Solid

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC Limits
Bis(2-chloroisopropyl)ether	97.1		133	166	58.5 20-115
Bis(2-ethylhexyl)phthalate	173		66.5	166	104 45-125
4-Bromophenyl phenyl ether	120		133	166	72.3 45-115
Butyl benzyl phthalate	162		66.5	166	97.6 70-130
Carbazole	135		133	166	81.3 70-130
Caprolactam	149		133	166	89.8 70-130
4-Chloroaniline	85.8		133	166	51.7 10-95
2-Chloronaphthalene	105		133	166	63.3 45-105
2-Chlorophenol	104		133	166	62.7 36-94
4-Chlorophenyl phenyl ether	115		133	166	69.3 45-110
4-Chloro-3-methylphenol	122		133	166	73.5 40-107
Chrysene	136		33.3	166	81.9 70-130
Dibenzofuran	111		133	166	66.9 50-105
Dibenz (a,h) anthracene	132		33.3	166	79.5 40-125
1,2-Dichlorobenzene	93.1		33.3	166	56.1 45-95
1,3-Dichlorobenzene	91.8		33.3	166	55.3 40-100
1,4-Dichlorobenzene	84.5		33.3	166	50.9 34-88
3,3'-Dichlorobenzidine	153		133	166	92.2 10-130
2,4-Dichlorophenol	113		133	166	68.1 45-110
Diethyl phthalate	132		66.5	166	79.5 70-130
2,4-Dimethylphenol	99.8		33.3	166	60.1 30-105
Dimethyl phthalate	118		66.5	166	71.1 50-110
2,4-Dinitrophenol	152		66.5	166	91.6 15-130
2,4-Dinitrotoluene	127		133	166	76.5 38-120
2,6-Dinitrotoluene	117		133	166	70.5 50-110
4,6-Dinitro-2-methylphenol	151		66.5	166	91.0 30-135
Di-n-butyl phthalate	150		66.5	166	90.4 55-110
Di-n-octyl phthalate	147		66.5	166	88.6 40-130
1,2-Diphenylhydrazine	112		13.3	166	67.5# 70-130
Fluoranthene	142		33.3	166	85.5 70-130



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

Batch: B6E2405

Sample Type: Solid

**LCS (B6E2405-BS1)**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Reporting Qualifiers	Limit	Spike Level	%REC Limits
Fluorene	119		33.3	166	71.7 50-110
Hexachlorobenzene	113		13.3	166	68.1 45-120
Hexachlorobutadiene	97.8		33.3	166	58.9 40-115
Hexachlorocyclopentadiene	85.1		133	166	51.3# 70-130
Hexachloroethane	91.1		133	166	54.9 35-110
Indeno (1,2,3-cd) pyrene	135		33.3	166	81.3 40-120
Isophorone	106		33.3	166	63.9 45-110
2-Methylnaphthalene	103		33.3	166	62.0 45-105
2-Methylphenol	107		66.5	166	64.5 40-105
3 &/or 4-Methylphenol	108		133	166	65.1 40-105
Naphthalene	100		33.3	166	60.2 40-105
2-Nitroaniline	122		266	166	73.5 45-120
3-Nitroaniline	116		266	166	69.9 25-110
4-Nitroaniline	145		266	166	87.3 35-115
Nitrobenzene	99.1		133	166	59.7 45-115
2-Nitrophenol	108		133	166	65.1 40-110
4-Nitrophenol	129		399	166	77.7 26-118
N-Nitrosodiphenylamine	125		33.3	166	75.3 50-115
N-Nitrosodi-n-propylamine	102		133	166	61.4 33-98
Pentachlorophenol	134		133	166	80.7 17-105
Phenanthrene	122		33.3	166	73.5 70-130
Phenol	104		133	166	62.7 37-95
Pyrene	139		33.3	166	83.7 39-122
1,2,4-Trichlorobenzene	98.4		13.3	166	59.3 36-96
2,4,5-Trichlorophenol	122		133	166	73.5 50-110
2,4,6-Trichlorophenol	122		133	166	73.5 45-110



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

Batch: B6E2405

Sample Type: Solid

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	246		380	64.7	26-104
<i>Surr: Phenol-d5</i>	271		380	71.3	29-107
<i>Surr: 2-Chlorophenol-d4</i>	273		380	71.8	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	153		253	60.5	26-98
<i>Surr: Nitrobenzene-d5</i>	173		253	68.4	26-109
<i>Surr: 2-Fluorobiphenyl</i>	186		253	73.5	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	257		380	67.6	29-125
<i>Surr: Terphenyl-d14</i>	265		253	105	41-141

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	%REC Limits
Acenaphthene	182		50.6	253		71.9	31-107
Acenaphthylene	191		50.6	253		75.5	45-105
Acetophenone	182		203	253		71.9	70-130
Anthracene	182		50.6	253		71.9	70-130
Atrazine	233		203	253		92.1	70-130
Benzaldehyde	360		203	253	35.4	128	70-130
Benzoic acid	379		203	253	186	76.3	0-110
Benzo (a) anthracene	227		50.6	253	11.1	85.3	70-130
Benzo (a) pyrene	239		50.6	253	15.2	88.5	70-130
Benzo (b) fluoranthene	288		50.6	253	32.4	101	45-115
Benzo (g,h,i) perylene	196		50.6	253	15.2	71.5	40-125
Benzo (k) fluoranthene	217		50.6	253	13.2	80.6	45-125
Benzyl alcohol	190		101	253		75.1	20-125
1,1'-Biphenyl	191		203	253		75.5	70-130
Bis(2-chloroethoxy)methane	169		203	253		66.8	45-110
Bis(2-chloroethyl)ether	143		203	253		56.5	40-105



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

Batch: B6E2405

Sample Type: Solid

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Bis(2-chloroisopropyl)ether	152		203	253		60.1 20-115
Bis(2-ethylhexyl)phthalate	296		101	253	44.6	99.4 45-125
4-Bromophenyl phenyl ether	201		203	253		79.4 45-115
Butyl benzyl phthalate	309		101	253		122 70-130
Carbazole	208		203	253		82.2 70-130
Caprolactam	246		203	253		97.2 70-130
4-Chloroaniline	U		203	253		NR # 10-95
2-Chloronaphthalene	177		203	253		70.0 45-105
2-Chlorophenol	170		203	253		67.2 29-92
4-Chlorophenyl phenyl ether	187		203	253		73.9 45-110
4-Chloro-3-methylphenol	204		203	253		80.6 33-119
Chrysene	220		50.6	253	23.3	77.7 70-130
Dibenzofuran	191		203	253		75.5 50-105
Dibenz (a,h) anthracene	196		50.6	253		77.5 40-125
1,2-Dichlorobenzene	139		50.6	253		54.9 45-95
1,3-Dichlorobenzene	138		50.6	253		54.5 40-100
1,4-Dichlorobenzene	127		50.6	253		50.2 26-85
3,3'-Dichlorobenzidine	U		203	253		NR # 10-130
2,4-Dichlorophenol	196		203	253		77.5 45-110
Diethyl phthalate	208		101	253		82.2 70-130
2,4-Dimethylphenol	198		50.6	253		78.3 30-105
Dimethyl phthalate	192		101	253		75.9 50-110
2,4-Dinitrophenol	243		1,010	253		96.0 15-130
2,4-Dinitrotoluene	190		203	253		75.1 37-115
2,6-Dinitrotoluene	191		203	253		75.5 50-110
4,6-Dinitro-2-methylphenol	223		1,010	253		88.1 30-135
Di-n-butyl phthalate	232		101	253	12.2	86.9 55-110
Di-n-octyl phthalate	253		101	253		100 40-130
1,2-Diphenylhydrazine	182		20.3	253		71.9 70-130
Fluoranthene	226		50.6	253	16.2	82.9 70-130



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

Batch: B6E2405

Sample Type: Solid

**Matrix Spike (B6E2405-MS1)**

Source: 0605012-08

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits
Fluorene	196	50.6	253		77.5 50-110
Hexachlorobenzene	187	20.3	253		73.9 45-120
Hexachlorobutadiene	160	50.6	253		63.2 40-115
Hexachlorocyclopentadiene	U	203	253		NR # 70-130
Hexachloroethane	120	203	253		47.4 35-110
Indeno (1,2,3-cd) pyrene	208	50.6	253	14.2	76.6 40-120
Isophorone	175	50.6	253		69.2 45-110
2-Methylnaphthalene	177	50.6	253		70.0 45-105
2-Methylphenol	185	101	253		73.1 40-105
3 &/or 4-Methylphenol	189	203	253		74.7 40-105
Naphthalene	163	50.6	253		64.4 40-105
2-Nitroaniline	202	405	253		79.8 45-120
3-Nitroaniline	14.2	405	253		5.61# 25-110
4-Nitroaniline	46.6	405	253		18.4# 35-115
Nitrobenzene	157	203	253		62.1 40-115
2-Nitrophenol	180	203	253		71.1 40-110
4-Nitrophenol	165	608	253		65.2 19-132
N-Nitrosodiphenylamine	202	50.6	253		79.8 50-115
N-Nitrosodi-n-propylamine	167	203	253		66.0 27-95
Pentachlorophenol	121	203	253		47.8 21-130
Phenanthrene	207	50.6	253	11.1	77.4 70-130
Phenol	178	203	253		70.4 29-95
Pyrene	280	50.6	253	22.3	102 31-132
1,2,4-Trichlorobenzene	158	20.3	253		62.5 27-98
2,4,5-Trichlorophenol	195	203	253		77.1 50-110
2,4,6-Trichlorophenol	169	203	253		66.8 45-110



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

**Batch: B6E2405**

**Sample Type: Solid**

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Surrogates**

ANALYTE	Result µg/kg dry	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: 2-Fluorophenol</i>	249		379	65.7	26-104
<i>Surr: Phenol-d5</i>	285		379	75.2	29-107
<i>Surr: 2-Chlorophenol-d4</i>	280		379	73.9	28-103
<i>Surr: 1,2-Dichlorobenzene-d4</i>	152		253	60.1	26-98
<i>Surr: Nitrobenzene-d5</i>	181		253	71.5	26-109
<i>Surr: 2-Fluorobiphenyl</i>	195		253	77.1	34-116
<i>Surr: 2,4,6-Tribromophenol</i>	399		379	105	29-125
<i>Surr: Terphenyl-d14</i>	281		253	111	41-141

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit
Acenaphthene	198		50.6	253		78.3	31-107	8.42 31
Acenaphthylene	205		50.6	253		81.0	45-105	7.07 20
Acetophenone	191		202	253		75.5	70-130	4.83 20
Anthracene	203		50.6	253		80.2	70-130	10.9 20
Atrazine	235		202	253		92.9	70-130	0.86 20
Benzaldehyde	354		202	253	35.4	126	70-130	1.68 20
Benzoic acid	446		202	253	186	103	0-110	16.2 20
Benzo (a) anthracene	254		50.6	253	11.1	96.0	70-130	11.2 20
Benzo (a) pyrene	250		50.6	253	15.2	92.8	70-130	4.50 20
Benzo (b) fluoranthene	276		50.6	253	32.4	96.3	45-115	4.26 20
Benzo (g,h,i) perylene	218		50.6	253	15.2	80.2	40-125	10.6 20
Benzo (k) fluoranthene	255		50.6	253	13.2	95.6	45-125	16.1 20
Benzyl alcohol	202		101	253		79.8	20-125	6.12 20
1,1'-Biphenyl	203		202	253		80.2	70-130	6.09 20
Bis(2-chloroethoxy)methane	175		202	253		69.2	45-110	3.49 20
Bis(2-chloroethyl)ether	151		202	253		59.7	40-105	5.44 20



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**Region 6 Laboratory**

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

**Batch: B6E2405**

**Sample Type: Solid**

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Bis(2-chloroisopropyl)ether	157		202	253		62.1 20-115	3.24	20
Bis(2-ethylhexyl)phthalate	321		101	253	44.6	109 45-125	8.10	20
4-Bromophenyl phenyl ether	207		202	253		81.8 45-115	2.94	20
Butyl benzyl phthalate	312		101	253		123 70-130	0.97	20
Carbazole	214		202	253		84.6 70-130	2.84	20
Caprolactam	253		202	253		100 70-130	2.81	20
4-Chloroaniline	U		202	253		NR # 10-95	NR #	20
2-Chloronaphthalene	188		202	253		74.3 45-105	6.03	20
2-Chlorophenol	176		202	253		69.6 29-92	3.47	31
4-Chlorophenyl phenyl ether	200		202	253		79.1 45-110	6.72	20
4-Chloro-3-methylphenol	222		202	253		87.7 33-119	8.45	37
Chrysene	233		50.6	253	23.3	82.9 70-130	5.74	20
Dibenzofuran	208		202	253		82.2 50-105	8.52	20
Dibenz (a,h) anthracene	217		50.6	253		85.8 40-125	10.2	20
1,2-Dichlorobenzene	140		50.6	253		55.3 45-95	0.72	20
1,3-Dichlorobenzene	142		50.6	253		56.1 40-100	2.86	20
1,4-Dichlorobenzene	123		50.6	253		48.6 26-85	3.20	36
3,3'-Dichlorobenzidine	U		202	253		NR # 10-130	NR #	20
2,4-Dichlorophenol	210		202	253		83.0 45-110	6.90	20
Diethyl phthalate	224		101	253		88.5 70-130	7.41	20
2,4-Dimethylphenol	213		50.6	253		84.2 30-105	7.30	20
Dimethyl phthalate	203		101	253		80.2 50-110	5.57	20
2,4-Dinitrophenol	300		1,010	253		119 15-130	21.0 #	20
2,4-Dinitrotoluene	226		202	253		89.3 37-115	17.3	33
2,6-Dinitrotoluene	220		202	253		87.0 50-110	14.1	20
4,6-Dinitro-2-methylphenol	271		1,010	253		107 30-135	19.4	20
Di-n-butyl phthalate	232		101	253	12.2	86.9 55-110	0.00	20
Di-n-octyl phthalate	249		101	253		98.4 40-130	1.59	20
1,2-Diphenylhydrazine	208		20.2	253		82.2 70-130	13.3	20
Fluoranthene	246		50.6	253	16.2	90.8 70-130	8.47	20



**Environmental Protection Agency**  
**Region 6 Laboratory**

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

**Batch: B6E2405**

**Sample Type: Solid**

**Matrix Spike Dup (B6E2405-MSD1)**

**Source: 0605012-08**

Prepared: 5/24/2006 Analyzed: 6/6/2006

**Targets (Continued)**

ANALYTE	Result μg/kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit
Fluorene	227	50.6	253		89.7 50-110	14.7	20
Hexachlorobenzene	196	20.2	253		77.5 45-120	4.70	20
Hexachlorobutadiene	159	50.6	253		62.8 40-115	0.63	20
Hexachlorocyclopentadiene	19.2	202	253		7.59# 70-130	NR	20
Hexachloroethane	126	202	253		49.8 35-110	4.88	20
Indeno (1,2,3-cd) pyrene	234	50.6	253	14.2	86.9 40-120	11.8	20
Isophorone	182	50.6	253		71.9 45-110	3.92	20
2-Methylnaphthalene	191	50.6	253		75.5 45-105	7.61	20
2-Methylphenol	194	101	253		76.7 40-105	4.75	20
3 &/or 4-Methylphenol	203	202	253		80.2 40-105	7.14	20
Naphthalene	168	50.6	253		66.4 40-105	3.02	20
2-Nitroaniline	186	405	253		73.5 45-120	8.25	20
3-Nitroaniline	U	405	253		NR # 25-110	NR #	20
4-Nitroaniline	U	405	253		NR # 35-115	NR #	20
Nitrobenzene	164	202	253		64.8 40-115	4.36	20
2-Nitrophenol	198	202	253		78.3 40-110	9.52	20
4-Nitrophenol	192	607	253		75.9 19-132	15.1	38
N-Nitrosodiphenylamine	195	50.6	253		77.1 50-115	3.53	20
N-Nitrosodi-n-propylamine	177	202	253		70.0 27-95	5.81	34
Pentachlorophenol	244	202	253		96.4 21-130	67.4 #	44
Phenanthrene	257	50.6	253	11.1	97.2 70-130	21.6 #	20
Phenol	181	202	253		71.5 29-95	1.67	34
Pyrene	307	50.6	253	22.3	113 31-132	9.20	38
1,2,4-Trichlorobenzene	159	20.2	253		62.8 27-98	0.63	36
2,4,5-Trichlorophenol	222	202	253		87.7 50-110	12.9	20
2,4,6-Trichlorophenol	229	202	253		90.5 45-110	30.2 #	20



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

Batch: B6E1901

Sample Type: Liquid

**Blank (B6E1901-BLK1)**

Prepared: 5/19/2006 Analyzed: 5/24/2006

**Targets**

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

**LCS (B6E1901-BS2)**

Prepared: 5/19/2006 Analyzed: 6/14/2006

**Targets**

ANALYTE	Result ng/L	Analyte Reporting Qualifiers	Reporting Limit	Spike Level	%REC %REC Limits
Toxaphene	532		60.0	500	106 80-124



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

Batch: B6E2301

Sample Type: Solid

**Blank (B6E2301-BLK1)**

Prepared: 5/23/2006 Analyzed: 6/12/2006

**Targets**

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

**Blank (B6E2301-BLK2)**

Prepared: 6/1/2006 Analyzed: 6/12/2006

**Targets**

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

**LCS (B6E2301-BS2)**

Prepared: 5/23/2006 Analyzed: 6/12/2006

**Targets**

ANALYTE	Result µg/kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits
Toxaphene	40.2		10.0	41.6	96.6 67-136





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**Results**

**from**

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



**Environmental Protection Agency**  
**Region 6 Laboratory**

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

**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Ammonia as N	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	6.55		350.1	06/07/06
0605012-03	Field Duplicate 5	0.23		350.1	06/07/06
0605012-05	Mossy Lake 5	5.59		350.1	06/07/06
0605012-07	Reference 5	0.20		350.1	06/07/06
0605014-01	Ouachita DN 5	0.07		350.1	06/07/06
0605014-03	Field Blank 5	<0.05		350.1	06/07/06
0605014-04	Ouachita UP 5	<0.05		350.1	06/07/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Chloride	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	161		300.0	05/27/06
0605012-03	Field Duplicate 5	50		300.0	06/13/06
0605012-05	Mossy Lake 5	154		300.0	05/27/06
0605012-07	Reference 5	55		300.0	05/25/06
0605014-01	Ouachita DN 5	9		300.0	05/26/06
0605014-03	Field Blank 5	<5		300.0	05/26/06
0605014-04	Ouachita UP 5	9		300.0	05/26/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Chlorophyll-a	Analyte Qualifier	Specific Method	Date Analyzed
		ug/L			
0605012-01	Coffee Creek 5	<10		10200H	05/18/06
0605012-03	Field Duplicate 5	<10		10200H	05/18/06
0605012-05	Mossy Lake 5	1110		10200H	05/18/06
0605012-07	Reference 5	<10		10200H	05/18/06
0605014-01	Ouachita DN 5	<10		10200H	05/18/06
0605014-03	Field Blank 5	<10		10200H	05/18/06
0605014-04	Ouachita UP 5	<10		10200H	05/18/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Nitrate as N	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	<0.02		353.2	05/31/06
0605012-03	Field Duplicate 5	0.03		353.2	05/31/06
0605012-05	Mossy Lake 5	<0.02		353.2	05/31/06
0605012-07	Reference 5	0.03		353.2	05/31/06
0605014-01	Ouachita DN 5	0.08		353.2	05/31/06
0605014-03	Field Blank 5	<0.02		353.2	05/31/06
0605014-04	Ouachita UP 5	0.08		353.2	05/31/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Nitrite as N	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	0.06		354.1	05/18/06
0605012-03	Field Duplicate 5	0.02		354.1	05/18/06
0605012-05	Mossy Lake 5	0.05		354.1	05/18/06
0605012-07	Reference 5	0.03		354.1	05/18/06
0605014-01	Ouachita DN 5	<0.02		354.1	05/18/06
0605014-03	Field Blank 5	<0.02		354.1	05/18/06
0605014-04	Ouachita UP 5	<0.02		354.1	05/18/06

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Percent Total Solids	Analyte Qualifier	Specific Method	Date Analyzed
		Percent			
0605012-02	Coffee Creek 5	39.54		2540B	06/06/06
0605012-04	Field Duplicate 5	54.20		2540B	06/06/06
0605012-06	Mossy Lake 5	33.53		2540B	06/06/06
0605012-08	Reference 5	54.70		2540B	06/06/06
0605014-02	Ouachita DN 5	64.79		2540B	06/06/06
0605014-05	Ouachita UP 5	55.68		2540B	06/06/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Pheophytin-a	Analyte Qualifier	Specific Method	Date Analyzed
		ug/L			
0605012-01	Coffee Creek 5	<5		10200H	05/18/06
0605012-03	Field Duplicate 5	7.34		10200H	05/18/06
0605012-05	Mossy Lake 5	44.0		10200H	05/18/06
0605012-07	Reference 5	7.61		10200H	05/18/06
0605014-01	Ouachita DN 5	5.61		10200H	05/18/06
0605014-03	Field Blank 5	<5		10200H	05/18/06
0605014-04	Ouachita UP 5	6.41		10200H	05/18/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Phosphorus, Total	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	1.31		365.1	06/01/06
0605012-03	Field Duplicate 5	0.24		365.1	06/01/06
0605012-05	Mossy Lake 5	1.49		365.1	06/01/06
0605012-07	Reference 5	0.21		365.1	06/01/06
0605014-01	Ouachita DN 5	0.12		365.1	06/01/06
0605014-03	Field Blank 5	<0.06		365.1	06/01/06
0605014-04	Ouachita UP 5	0.11		365.1	06/01/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Clay Percent	Analyte Qualifier	Specific Method	Date Analyzed
0605012-02	Coffee Creek 5	11.61		SOP 160	06/15/06
0605012-04	Field Duplicate 5	20.42		SOP 160	06/15/06
0605012-06	Mossy Lake 5	19.84		SOP 160	06/15/06
0605012-08	Reference 5	18.78		SOP 160	06/15/06
0605014-02	Ouachita DN 5	10.83		SOP 160	06/15/06
0605014-05	Ouachita UP 5	21.41		SOP 160	06/15/06

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Gravel Percent	Analyte Qualifier	Specific Method	Date Analyzed
0605012-02	Coffee Creek 5	0		SOP 160	06/15/06
0605012-04	Field Duplicate 5	0		SOP 160	06/15/06
0605012-06	Mossy Lake 5	0		SOP 160	06/15/06
0605012-08	Reference 5	0		SOP 160	06/15/06
0605014-02	Ouachita DN 5	0		SOP 160	06/15/06
0605014-05	Ouachita UP 5	0		SOP 160	06/15/06

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Sand Percent	Analyte Qualifier	Specific Method	Date Analyzed
0605012-02	Coffee Creek 5	77.21		SOP 160	06/15/06
0605012-04	Field Duplicate 5	51.70		SOP 160	06/15/06
0605012-06	Mossy Lake 5	50.18		SOP 160	06/15/06
0605012-08	Reference 5	38.88		SOP 160	06/15/06
0605014-02	Ouachita DN 5	74.72		SOP 160	06/15/06
0605014-05	Ouachita UP 5	57.59		SOP 160	06/15/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Sediment Particles, Silt	Analyte Qualifier	Specific Method	Date Analyzed
		Percent			
0605012-02	Coffee Creek 5	11.18		SOP 160	06/15/06
0605012-04	Field Duplicate 5	27.88		SOP 160	06/15/06
0605012-06	Mossy Lake 5	29.97		SOP 160	06/15/06
0605012-08	Reference 5	42.35		SOP 160	06/15/06
0605014-02	Ouachita DN 5	14.45		SOP 160	06/15/06
0605014-05	Ouachita UP 5	21.00		SOP 160	06/15/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Sulfate	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	348		300.0	05/27/06
0605012-03	Field Duplicate 5	6		300.0	06/13/06
0605012-05	Mossy Lake 5	284		300.0	05/27/06
0605012-07	Reference 5	7		300.0	05/25/06
0605014-01	Ouachita DN 5	12		300.0	05/26/06
0605014-03	Field Blank 5	<5		300.0	05/26/06
0605014-04	Ouachita UP 5	12		300.0	05/26/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Dissolved Solids	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	1600		160.1	05/22/06
0605012-03	Field Duplicate 5	286		160.1	05/22/06
0605012-05	Mossy Lake 5	1330		160.1	05/22/06
0605012-07	Reference 5	332		160.1	05/22/06
0605014-01	Ouachita DN 5	91		160.1	05/22/06
0605014-03	Field Blank 5	<10		160.1	05/22/06
0605014-04	Ouachita UP 5	91		160.1	05/22/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Kjeldahl Nitrogen	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	15.2		351.2	05/30/06
0605012-03	Field Duplicate 5	0.98		351.2	05/30/06
0605012-05	Mossy Lake 5	19.1		351.2	05/30/06
0605012-07	Reference 5	1.09		351.2	05/30/06
0605014-01	Ouachita DN 5	0.76		351.2	05/30/06
0605014-03	Field Blank 5	<0.05		351.2	05/30/06
0605014-04	Ouachita UP 5	0.70		351.2	05/30/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Organic Carbon, NPOC mg/L	Analyte Qualifier	Specific Method	Date Analyzed
0605012-01	Coffee Creek 5	125		415.2	06/07/06
0605012-03	Field Duplicate 5	13		415.2	05/31/06
0605012-05	Mossy Lake 5	98		415.2	06/07/06
0605012-07	Reference 5	13		415.2	06/07/06
0605014-01	Ouachita DN 5	13		415.2	05/31/06
0605014-03	Field Blank 5	<1		415.2	05/31/06
0605014-04	Ouachita UP 5	12		415.2	05/31/06

Batch: TCEQ

Matrix: Solid

Laboratory ID	Station ID	Total Organic Carbon, NPOC in Sediment mg/kg	Analyte Qualifier	Specific Method	Date Analyzed
0605012-02	Coffee Creek 5	32100		415.2	05/26/06
0605012-04	Field Duplicate 5	23800		415.2	05/26/06
0605012-06	Mossy Lake 5	31900		415.2	06/12/06
0605012-08	Reference 5	27100		415.2	06/12/06
0605014-02	Ouachita DN 5	5940		415.2	06/12/06
0605014-05	Ouachita UP 5	8480		415.2	06/12/06



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**Miscellaneous Results**  
**(TCEQ)**

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Total Suspended Solids	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	58		160.2	05/22/06
0605012-03	Field Duplicate 5	41		160.2	05/22/06
0605012-05	Mossy Lake 5	74		160.2	05/22/06
0605012-07	Reference 5	44		160.2	05/22/06
0605014-01	Ouachita DN 5	18		160.2	05/22/06
0605014-03	Field Blank 5	<1		160.2	05/22/06
0605014-04	Ouachita UP 5	22		160.2	05/22/06

Batch: TCEQ

Matrix: Liquid

Laboratory ID	Station ID	Volatile Suspended Solids	Analyte Qualifier	Specific Method	Date Analyzed
		mg/L			
0605012-01	Coffee Creek 5	28		160.4	05/22/06
0605012-03	Field Duplicate 5	4		160.4	05/22/06
0605012-05	Mossy Lake 5	42		160.4	05/22/06
0605012-07	Reference 5	6		160.4	05/22/06
0605014-01	Ouachita DN 5	3		160.4	05/22/06
0605014-03	Field Blank 5	<1		160.4	05/22/06
0605014-04	Ouachita UP 5	3		160.4	05/22/06



# Environmental Protection Agency Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
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## CHAIN-OF-CUSTODY FORM

Parsons  
8000 Centre Park Dr., Suite 200  
Austin, TX 78754

## Chain of Custody Record

Project: Coffee Cr., Mossy Lake, Ouachita River  
No. of containers: 14  
Name of Collector: *Ruth Zeldon*  
Site Name: Ouachita DN

Name of Company: University of Arkansas

Sample ID	Date	Time	Matrix	Filtered?	Analysis:	H <sub>2</sub> SO <sub>4</sub>	Comments
Ouachita DN 5-1	5/17/06	11:20am	Water	No	Nitrite, Chloride, Sulfate, TSS, TDS		
Ouachita DN 5-2			Water	No	Chlorophyll-a		
Ouachita DN 5-3			Water	No	Total Phosphorous, Nitrate	X	
Ouachita DN 5-4			Water	No	Ammonia, TKN	X	
Ouachita DN 5-5			Water	No	TOC	X	
Ouachita DN 5-6			Water	No	Pesticide		
Ouachita DN 5-7			Water	No	Pesticide		
Ouachita DN 5-8			Water	No	Pesticide		
Ouachita DN 5-9		11:30am	Sediment	No	Pesticide/PCB		
Ouachita DN 5-10			Sediment	No	Semi-Volatiles		
Ouachita DN 5-11			Sediment	No	Total Metals		
Ouachita DN 5-12			Sediment	No	TOC, Gram Size		
Ouachita DN 5-13		11:20am	Water	No	Chronic Toxicity		
Ouachita DN 5-14		11:30am	Sediment	No	Chronic Toxicity		
Relinquished by: <i>Ruth Zeldon</i>	Date: 5/17/06	Time:	Received by: <i>M. Spanden</i>	Date: 5/18/06	Time: 9:00	Laboratory Remarks: <i>Temp Se. Recl = 20</i>	



# Environmental Protection Agency Region 6 Laboratory

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

## CHAIN-OF-CUSTODY FORM

Parsons  
8000 Centre Park Dr., Suite 200  
Austin, Tx 78754

### Chain of Custody Record

Project: Coffee Cr., Mossy Lake, Ouachita River		Name of Company: University of Arkansas										
No. of containers: 14		Name of Collector: <i>Ruth Zelenin</i>										
Site Name: Coffee Creek		Date: <i>5/16/06</i>										
Sample ID	Date	Time	Matrix	Filtered?	Analysis:	H <sup>+</sup> OS <sup>-</sup>	Comments					
Coffee Creek 5-1	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Nitric, Chloride, Sulfate, TSS, TDS							
Coffee Creek 5-2	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Chlorophyll-a							
Coffee Creek 5-3	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Total Phosphorous, Nitrate	X						
Coffee Creek 5-4	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Ammonia, TKN	X						
Coffee Creek 5-5	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	TOC	X						
Coffee Creek 5-6	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Pesticide							
Coffee Creek 5-7	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Pesticide							
Coffee Creek 5-8	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Pesticide							
Coffee Creek 5-9	<i>5/16/06</i>	<i>9:55 am</i>	Sediment	No	Pesticide/PCB							
Coffee Creek 5-10	<i>5/16/06</i>	<i>9:55 am</i>	Sediment	No	Semi-Volatiles							
Coffee Creek 5-11	<i>5/16/06</i>	<i>9:55 am</i>	Sediment	No	Total Metals							
Coffee Creek 5-12	<i>5/16/06</i>	<i>9:55 am</i>	Sediment	No	TOC, Grain Size							
Coffee Creek 5-13	<i>5/16/06</i>	<i>9:40 am</i>	Water	No	Chronic Toxicity							
Coffee Creek 5-14	<i>5/16/06</i>	<i>9:55 am</i>	Sediment	No	Chronic Toxicity							
Relinquished by: (Signature) <i>Ruth Zelenin</i>		Date:	<i>5/16/06</i>	Time:	<i>3:30pm</i>	Received by: (Signature) <i>M. Stenmark</i>	Date:	<i>5/17/06</i>	Time:	<i>9:15</i>	Laboratory Remarks:	<i>sample temp = 10C</i>

*APP*



Environmental Protection Agency  
**Region 6 Laboratory**

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**CHAIN-OF-CUSTODY FORM**

Parsons  
 8000 Centre Park Dr., Suite 200  
 Austin, TX 78754

**Chain of Custody Record**

Project: Coffee Cr., Mossy Lake, Ouachita River  
 No. of containers: 8  
 Name of Collector: *Paul Beldron*  
 Site Name: Field Blank  
 Name of Company: University of Arkansas

Sample ID	Date	Time	Matrix	Filtered?	Analysis:	OS <sup>2</sup> H	Comments
Field Blank 5-1	5/17/06	8:40 a.m.	Water	No	Nitrite, Chloride, Sulfate, TSS, TDS		
Field Blank 5-2			Water	No	Chlorophyll-a		
Field Blank 5-3			Water	No	Total Phosphorous, Nitrate	X	
Field Blank 5-4			Water	No	Ammonia, TKN	X	
Field Blank 5-5			Water	No	TOC	X	
Field Blank 5-6			Water	No	Pesticide		
Field Blank 5-7			Water	No	Pesticide		
Field Blank 5-8			Water	No	Pesticide		
Relinquished by: (Signature) <i>Paul Beldron</i>	Date: 5/17/06	Time: 8:40 a.m.	Matrix: Water	Filtered?: No	Analysis: Nitrite, Chloride, Sulfate, TSS, TDS	OS <sup>2</sup> H: X	Comments: Temp 5/17/06 - 20
Received by: (Signature) <i>M. Stromaker</i>	Date: 5/18/06	Time: 9:00	Matrix: Water	Filtered?: No	Analysis: Nitrite, Chloride, Sulfate, TSS, TDS	OS <sup>2</sup> H: X	Comments: Temp 5/18/06 - 20





**Environmental Protection Agency**  
**Region 6 Laboratory**

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**CHAIN-OF-CUSTODY FORM**

Parsons  
 8000 Centre Park Dr., Suite 200  
 Austin, TX 78754

**Chain of Custody Record**

Project: Coffee Cr., Mossy Lake, Ouachita River		Name of Company: University of Arkansas					
No. of containers: 14		Name of Collector: <i>Boyan Zelede</i>					
Site Name: Ouachita UP		Name of Company: University of Arkansas					
Sample ID	Date	Time	Matrix	Filtered?	Analysis:	*OS <sup>2</sup> H	Comments
Ouachita UP 5-1	5-17-06	10:30 AM	Water	No	Nitrite, Chloride, Sulfate, TSS, TDS		
Ouachita UP 5-2			Water	No	Chlorophyll-a		
Ouachita UP 5-3			Water	No	Total Phosphorous, Nitrate	X	
Ouachita UP 5-4			Water	No	Ammonia, TKN	X	
Ouachita UP 5-5			Water	No	TOC	X	
Ouachita UP 5-6			Water	No	Pesticide		
Ouachita UP 5-7			Water	No	Pesticide		
Ouachita UP 5-8			Water	No	Pesticide/PCB		
Ouachita UP 5-9		10:40 AM	Sediment	No	Semi-Volatiles		
Ouachita UP 5-10			Sediment	No	Total Metals		
Ouachita UP 5-11			Sediment	No	TOC, Grain Size		
Ouachita UP 5-12			Sediment	No	Chronic Toxicity		
Ouachita UP 5-13		10:30 AM	Water	No	Chronic Toxicity		
Ouachita UP 5-14		10:40 AM	Sediment	No	Chronic Toxicity		
Relinquished by: (Signature) <i>[Signature]</i>		Date:	5/17/06	Time:			
Received by: (Signature) <i>[Signature]</i>		Date:	6/18/06	Time:	9:00		Laboratory Remarks: <i>100% Sealed = PC</i>



Environmental Protection Agency  
**Region 6 Laboratory**

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**CHAIN-OF-CUSTODY FORM**

Parsons

8000 Centre Park Dr., Suite 200  
 Austin, Tx 78754

**Chain of Custody Record**

Project: Coffee Cr., Mossy Lake, Onachita River		Name of Company: University of Arkansas																			
No. of containers: 14		Name of Collector: Eric Cummings																			
Sample ID	Date	Time	Matrix	Filtered?	Analysis:	<sup>18</sup> O/S <sup>2</sup> H															Comments
Mossy Lake 5-1	07-14-06	11:35	Water	No	Nitrite, Chloride, Sulfate, TSS, TDS																
Mossy Lake 5-2		11:35	Water	No	Chlorophyll-a																
Mossy Lake 5-3		11:35	Water	No	Total Phosphorous, Nitrate	X															
Mossy Lake 5-4		11:35	Water	No	Ammonia, TKN	X															
Mossy Lake 5-5		11:35	Water	No	TOC	X															
Mossy Lake 5-6		11:35	Water	No	Pesticide																
Mossy Lake 5-7		11:35	Water	No	Pesticide																
Mossy Lake 5-8		11:35	Water	No	Pesticide																
Mossy Lake 5-9		11:50	Sediment	No	Pesticide/PCB																
Mossy Lake 5-10		11:50	Sediment	No	Semi-Volatiles																
Mossy Lake 5-11		11:50	Sediment	No	Total Metals																
Mossy Lake 5-12		11:50	Sediment	No	TOC, Grain Size																
Mossy Lake 5-13		11:35	Water	No	Chronic Toxicity																
Mossy Lake 5-14		11:50	Sediment	No	Chronic Toxicity																
Relinquished by: (Signature)		Date:		Time:	Received by: (Signature)	Date:	Time:	Laboratory Remarks:													
Eric Cummins		07/14/06		3:00pm	M. J. Jernstedt	6/17/06	9:15	TEMP 5x Test = PC													



# Environmental Protection Agency Region 6 Laboratory

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## CHAIN-OF-CUSTODY FORM

Parsons  
8000 Centre Park Dr., Suite 200  
Austin, TX 78754

## Chain of Custody Record

Project: Coffee Cr., Mossy Lake, Ouachita River  
Name of Company: University of Arkansas

No. of containers: 14

Name of Collector: *AS Kaufman*

Site Name: Reference

Sample ID	Date	Time	Matrix	Filtered?	Analysis:	H <sub>2</sub> O <sub>2</sub>	Comments
Reference 5-1	05-16-06	7:50 AM	Water	No	Nitrite, Chloride, Sulfate, TSS, TDS		
Reference 5-2		7:50 AM	Water	No	Chlorophyll-a	X	
Reference 5-3		7:50 AM	Water	No	Total Phosphorous, Nitrate	X	
Reference 5-4		7:50 AM	Water	No	Ammonia, TKN	X	
Reference 5-5		7:50 AM	Water	No	TOC		
Reference 5-6		7:50 AM	Water	No	Pesticide		
Reference 5-7		7:50 AM	Water	No	Pesticide		
Reference 5-8		7:50 AM	Water	No	Pesticide/PCB		
Reference 5-9		8:35 AM	Sediment	No	Semi-Volatiles		
Reference 5-10		8:35 AM	Sediment	No	Total Metals		
Reference 5-11		7:45 AM	Sediment	No	TOC, Grain Size		
Reference 5-12		7:45 AM	Water	No	Chronic Toxicity		
Reference 5-13		8:35 AM	Water	No	Chronic Toxicity		
Reference 5-14		8:35 AM	Sediment	No	Chronic Toxicity		
Relinquished by: (Signature)	<i>Adm. Kaufman</i>		Date: 05-16-06	Time: 8:45 PM	Received by: (Signature)	Date: 05/17/06	Time: 9:15
					<i>M. Sprenkle</i>		Laboratory Remarks: <i>FWP 5x (2x5) = 0°C</i>



Environmental Protection Agency  
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## Notes and Definitions

- RL The reporting limit for this analyte was raised because absence or presence at the routine or lower value could not be verified"
- R The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
- NJ There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.
- L The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Bio\* \*
- Bio <0.1
- B Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
- A This sample was extracted at a single acid pH.
- HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.



Environmental Protection Agency  
**Region 6 Laboratory**

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

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

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

The statistical software used for the reporting of toxicity data is ToxStat 3.5, Western Ecosystems Technology, Inc., Cheyenne, Wyoming 1996.

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec. Aqueous Mercury Data for Event # 4 (Collected 16-17 May 2006)  
 (Data Report J0915-9457-004)

AE ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Dil. Fac.	Hg (ng/L)
<b>Field Samples (Notes 1)</b>									
JJ-0775	5/16/2006 0750	Reference (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	18.9
JJ-0779	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	2.0	10.2
JJ-0785	5/16/2006 1135	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	2.0	7.47
JJ-0797	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	8.24
JJ-0800	5/17/2006 1130	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	8.45
<b>Notes:</b>									
1. All total recoverable mercury (Hg) concentrations in nanograms per liter (= parts per trillion).									
<b>Field Quality Assurance (QA) Samples</b>									
<b>Equipment Blanks</b>									
JJ-0151	1/12/2006	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	1/13/2006	1.0	< 0.20
JJ-0152	1/12/2006	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	1/13/2006	1.0	< 0.20
JJ-0153	1/12/2006	Albion Env.	Bottle Blank (Glass 125)	DIW	Total Rec.	EPA 1631e	1/13/2006	1.0	< 0.20
HH-5365	11/30/2005	Albion Env.	Bottle Blank (Glass 250)	DIW	Total Rec.	EPA 1631e	12/1/2005	1.0	< 0.20
HH-5366	11/30/2005	Albion Env.	Bottle Blank (Glass 250)	DIW	Total Rec.	EPA 1631e	12/1/2005	1.0	< 0.20
HH-5367	11/30/2005	Albion Env.	Bottle Blank (Glass 250)	DIW	Total Rec.	EPA 1631e	12/1/2005	1.0	< 0.20
<b>Field Blank</b>									
JJ-0783	5/16/2006 1135	Mossy Lake (Site # 3)	Field Blank	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	< 0.20
<b>Field Duplicate</b>									
JJ-0797	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	8.24
JJ-0798	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	8.22
<b>Relative Percent Difference (RPD)</b>									<b>0.2</b>
<b>Laboratory Quality Assurance Samples</b>									
<b>Reporting Limit</b>						EPA 1631e			0.50
<b>Method Detection Limit</b>						EPA 1631e			0.20
<b>Certified Reference Materials</b>									
DORM2 # K-24		Albion Env.	NRCC CRM	Tissue	Total Rec.	EPA 1631e	6/6/2006	463761	4750000
Certified Value									4640000
<b>Percent Recovery (% R)</b>									<b>102</b>
TMA-989		Albion Env.	EPA Ref. Std.	Water	Total Rec.	EPA 1631e	6/6/2006	20220	208000
Certified Value									202000
% R									<b>103</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec. Aqueous Mercury Data for Event # 4 (Collected 16-17 May 2006)  
 (Data Report J0915-9457-004)

AE ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Dil. Fac.	Hg (ng/L)
<b>Laboratory Duplicates</b>									
JJ-0775	5/16/2006 0750	Reference (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	18.9
JJ-0775-LDUP	5/16/2006 0750	Reference (Site # 1)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1631e	6/6/2006	3.0	19.3
<b>RPD</b>									<b>2.1</b>
JJ-0779	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1631e	6/6/2006	2.0	10.2
JJ-0779-LDUP	5/16/2006 0940	Coffee Creek (Site # 2)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1631e	6/6/2006	2.0	10.1
<b>RPD</b>									<b>1.0</b>
<b>Matrix Spike</b>									
JJ-0798	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	8.22
JJ-0798-MS	5/17/2006 1030	Ouachita Upstream (Site # 4)	Matrix Spike	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	13.0
JJ-0798-MSD	5/17/2006 1030	Ouachita Upstream (Site # 4)	MS Duplicate	Surface Water	Total Rec.	EPA 1631e	6/6/2006	1.0	13.2
Expected Increase									5.00
%R MS									<b>96</b>
%R MSD									<b>100</b>
RPD MS/MSD									<b>2.2</b>
<b>Blank Spikes</b>									
LCS-1		Albion Env.	Blank Spike	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	4.87
Expected									5.00
% R									<b>97</b>
QCS5 NIST-1		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	4.92
Expected Value									5.00
% R									<b>98</b>
QCS5 B-114		Albion Env.	Ind. Chk. Std.	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	4.93
Expected Value									5.00
% R									<b>99</b>
<b>Percent Recovery at Reporting Limit (ML, Low Calibration Standard)</b>									
CalStd-1		Albion Env.	Low Calib. Std.	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	0.486
Reporting Limit (ML)									0.500
% R									<b>97</b>
<b>Method Blanks</b>									
M-BLK-10		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	< 0.20
M-BLK-11		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	< 0.20
M-BLK-15		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1631e	6/6/2006	1.0	< 0.20

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Dissolved Aqueous Trace Metals Data for Event # 4 (Collected 16-17 May 2006)  
 (Data Report J0915-9457-003)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Ag	Cd	Cr	Cu	Ni	Pb	Zn
<b>Field Samples (Notes 1,2)</b>														
JJ-0777	5/16/2006 0750	Reference (Site # 1)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.58	0.62	2.56	0.607	1.41
JJ-0781	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	0.063	0.805	6.10	6.51	11.0	3.50	211
JJ-0790	5/16/2006 1135	Mossy Lake (Site # 3)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	0.424	5.24	3.64	8.62	1.73	85.6
JJ-0794	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.85	1.47	2.18	0.411	2.40
JJ-0795	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.80	1.43	2.17	0.409	2.86
JJ-0802	5/17/2006 1130	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.93	1.46	2.30	0.424	3.71
<b>Notes:</b>														
1. All dissolved trace metal concentrations are in units of micrograms per liter (= parts per billion).														
2. All samples subjected to an additional ultraviolet digestion procedure to insure complete digestion of the relatively high dissolved organic matter (DOM) in several of the samples. See note 2 in data report J0220-9457-003 dated 20 February 2006 for a more detailed discussion of the situation.														
<b>Field Quality Assurance (QA) Samples</b>														
<b>Equipment Blanks</b>														
JJ-0075	1/5/2006	Albion Env.	Bottle Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
JJ-0076	1/5/2006	Albion Env.	Bottle Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
JJ-0077	1/5/2006	Albion Env.	Bottle Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
JJ-0159	1/12/2006	Albion Env.	Sampler Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
JJ-0160	1/12/2006	Albion Env.	Sampler Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
JJ-0161	1/12/2006	Albion Env.	Sampler Blank	DIW	Diss.	EPA 1638/200.8	1/16/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
<b>Field Blank</b>														
JJ-0789	5/16/2006 1135	Mossy Lake (Site # 3)	Field Blank	DIW	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.030	< 0.20
<b>Field Duplicate</b>														
JJ-0794	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.85	1.47	2.18	0.411	2.40
JJ-0795	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.80	1.43	2.17	0.409	2.86
<b>Relative Percent Difference (RPD)</b>														
										<b>6.4</b>	<b>2.8</b>	<b>0.5</b>	<b>0.5</b>	<b>17.5</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Dissolved Aqueous Trace Metals Data for Event # 4 (Collected 16-17 May 2006)  
 (Data Report J0915-9457-003)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Ag	Cd	Cr	Cu	Ni	Pb	Zn
<b>Laboratory Quality Assurance Samples</b>														
<b>Reporting Limits</b>						EPA 1638/200.8		0.100	0.100	1.00	0.30	1.00	0.100	0.50
<b>Method Detection Limit</b>						EPA 1638/200.8		0.050	0.050	0.50	0.10	0.30	0.030	0.20
<b>Certified Reference Materials</b>														
NIST-1640-1		Albion Env.	NIST SRM	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	7.50	23.2	37.1	83.9	27.2	28.0	55.4
<b>Certified Values</b>								7.62	22.8	38.6	85.2	27.4	27.9	53.2
<b>Percent Recovery (%R)</b>								<b>98</b>	<b>102</b>	<b>96</b>	<b>98</b>	<b>99</b>	<b>100</b>	<b>104</b>
NIST 1643E-1		Albion Env.	NRCC CRM	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	0.98	6.62	19.6	20.5	56.1	16.9	68.1
<b>Certified Values</b>								1.06	6.57	20.4	22.8	62.4	19.6	78.5
<b>% R</b>								<b>92</b>	<b>101</b>	<b>96</b>	<b>90</b>	<b>90</b>	<b>86</b>	<b>87</b>
<b>Laboratory Duplicate</b>														
JJ-0781	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	0.063	0.81	6.10	6.51	11.0	3.50	211
JJ-0781-LDUP	5/16/2006 0940	Coffee Creek (Site # 2)	Lab. Duplicate	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	0.074	0.82	6.10	6.50	11.2	3.43	212
<b>RPD</b>								<b>15.3</b>	<b>1.7</b>	<b>0.0</b>	<b>0.2</b>	<b>1.8</b>	<b>2.0</b>	<b>0.5</b>
<b>Matrix Spike (Note 2)</b>														
JJ-0795	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	0.80	1.43	2.17	0.409	2.86
JJ-0795-MS	5/17/2006 1030	Ouachita Upstream (Site # 4)	Matrix Spike	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	2.02	2.16	2.76	3.47	4.16	2.38	5.12
JJ-0795-MSD	5/17/2006 1030	Ouachita Upstream (Site # 4)	MS Duplicate	Surface Water	Diss.	EPA 1638/200.8	6/2/2006	2.00	2.15	2.76	3.46	4.11	2.38	5.13
<b>Expected Increase</b>								2.0	2.0	2.0	2.0	2.0	2.0	2.0
<b>%R MS</b>								<b>101</b>	<b>108</b>	<b>98</b>	<b>102</b>	<b>100</b>	<b>99</b>	<b>113</b>
<b>% R MSD</b>								<b>100</b>	<b>108</b>	<b>98</b>	<b>102</b>	<b>97</b>	<b>99</b>	<b>114</b>
<b>RPD</b>								<b>1.0</b>	<b>0.5</b>	<b>0.0</b>	<b>0.3</b>	<b>1.2</b>	<b>0.0</b>	<b>0.2</b>
<b>Blank Spike</b>														
LCS-1		Albion Env.	Blank Spike	DIW	Diss.	EPA 1638/200.8	6/2/2006	1.96	1.98	1.90	1.91	1.91	1.92	2.04
<b>Expected</b>								2.00	2.00	2.00	2.00	2.00	2.00	2.00
<b>%R</b>								<b>98</b>	<b>99</b>	<b>95</b>	<b>96</b>	<b>96</b>	<b>96</b>	<b>96</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Dissolved Aqueous Trace Metals Data for Event # 4 (Collected 16-17 May 2006)  
 (Data Report J0915-9457-003)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Ag	Cd	Cr	Cu	Ni	Pb	Zn
<b>Percent Recovery at or below Method Reporting Limit</b>														
Cal-Std-1		Albion Env.	Calib. Std.	DIW	Diss.	EPA 1638/200.8	6/2/2006	0.053	0.0964	0.50	0.21	0.52	0.0515	0.54
Expected								0.050	0.100	0.50	0.20	0.50	0.0500	0.50
%R								<b>106</b>	<b>96</b>	<b>100</b>	<b>106</b>	<b>104</b>	<b>103</b>	<b>108</b>
<b>Method Blank</b>														
JJ-2161		Albion Env.	Method Blank	DIW	Diss.	EPA 1638/200.8	6/2/2006	< 0.050	< 0.050	< 0.50	< 0.10	< 0.30	< 0.050	< 0.20

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec. Aqueous Selenium Data for Event # 4 (Collected 16-17 May 2006) and Event # 5 (Collected 6-7 June 2006)  
 (Data Report J0818-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
<b>Field Samples (Note 1)</b>								
<b>Event # 4 (16-17 May 2006)</b>								
JJ-0776	5/16/2006 0750	Reference (Site # 1)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.184
JJ-0780	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.506
JJ-0788	5/16/2006 1135	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.454
JJ-0792	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.166
JJ-0801	5/17/2006 1130	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.202
<b>Event # 5 (6-7 June 2006)</b>								
JJ-1975	6/6/2006 0805	Reference (Site # 1)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.252
JJ-1984	6/6/2006 0935	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.475
JJ-1988	6/6/2006 1150	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.343
JJ-1992	6/7/2006 0945	Ouachita Upstream (Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.127
JJ-2000	6/7/2006 1020	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.185
<b>Notes:</b>								
1. Total recoverable selenium (Se) concentration units are micrograms per liter (parts per billion).								
<b>Field Quality Assurance (QA) Samples</b>								
<b>Equipment Blanks</b>								
JJ-0078	1/5/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	1/16/2006	< 0.50
JJ-0079	1/5/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	1/16/2006	< 0.50
JJ-0080	1/5/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	1/16/2006	< 0.50
JJ-2164	6/1/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	6/2/2006	< 0.50
JJ-2165	6/1/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	6/2/2006	< 0.50
JJ-2166	6/1/2006	Albion Env.	Bottle Blank (LDPE 125)	DIW	Total Rec.	EPA 1638	6/2/2006	< 0.50
<b>Field Blanks</b>								
JJ-0786	5/16/2006 1135	Mossy Lake (Site # 3)	Field Blank	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	< 0.10
JJ-1998	6/7/2006 1020	Ouachita Downstream (Site # 5)	Field Blank	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	< 0.10
<b>Field Duplicates</b>								
JJ-0792	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.166
JJ-0793	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.222
<b>Relative Percent Difference (RPD)</b>								<b>29</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec.Aqueous Selenium Data for Event # 4 (Collected 16-17 May 2006) and Event # 5 (Collected 6-7 June 2006)  
 (Data Report J0818-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
JJ-1975	6/6/2006 0805	Reference (Site # 1)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.252
JJ-1976	6/6/2006 0805	Reference (Site # 1)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.248
<b>RPD</b>								<b>1.6</b>
<b>Laboratory Quality Assurance Samples</b>								
<b>Reporting Limit</b>						EPA 1632 (mod)		0.100
<b>Method Detection Limit</b>						EPA 1632 (mod)		0.050
<b>Certified Reference Materials</b>								
NIST-1640-42		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	22.9
Certified Value								22.0
<b>Percent Recovery (%R)</b>								<b>104</b>
NIST-1640-50		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	21.7
Certified Value								22.0
<b>% R</b>								<b>99</b>
NIST-1643E-51		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	11.3
Certified Value								12.0
<b>% R</b>								<b>94</b>
NIST-1643E-51		Albion Env.	NIST SRM	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	12.4
Certified Value								12.0
<b>% R</b>								<b>104</b>
<b>Laboratory Duplicates</b>								
JJ-0780	5/16/2006 0940	Coffee Creek (Site # 2)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.506
JJ-0780-LDUP	5/16/2006 0940	Coffee Creek (Site # 2)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.581
JJ-0780-LREP	5/16/2006 0940	Coffee Creek (Site # 2)	Lab. Replicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.528
JJ-0780-LREP	5/16/2006 0940	Coffee Creek (Site # 2)	Lab. Replicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.579
<b>Relative Standard Deviation (RSD)</b>								
								<b>6.8</b>
JJ-0793	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.222
JJ-0793-LDUP	5/17/2006 1030	Ouachita Upstream (Site # 4)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.202
<b>RPD</b>								<b>9.4</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec.Aqueous Selenium Data for Event # 4 (Collected 16-17 May 2006) and Event # 5 (Collected 6-7 June 2006)  
 (Data Report J0818-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
JJ-0792	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual Grab	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.166
JJ-0792-LDUP	5/17/2006 1030	Ouachita Upstream (Site # 4)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.164
<b>RPD</b>								<b>1.2</b>
JJ-0801	5/17/2006 1130	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.202
JJ-0801-LDUP	5/17/2006 1130	Ouachita Downstream (Site # 5)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.184
<b>RPD</b>								<b>9.3</b>
JJ-1988	6/6/2006 1150	Mossy Lake (Site # 3)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.343
JJ-1988-LDUP	6/6/2006 1150	Mossy Lake (Site # 3)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.386
<b>RPD</b>								<b>11.8</b>
JJ-1992	6/7/2006 0945	Ouachita Upstream (Site # 4)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.127
JJ-1992-LDUP	6/7/2006 0945	Ouachita Upstream (Site # 4)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.139
<b>RPD</b>								<b>9.0</b>
JJ-2000	6/7/2006 1020	Ouachita Downstream (Site # 5)	Grab sample	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.185
JJ-2000-LDUP	6/7/2006 1020	Ouachita Downstream (Site # 5)	Lab. Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.137
<b>RPD</b>								<b>30</b>
<b>Matrix Spikes</b>								
JJ-0793	5/17/2006 1030	Ouachita Upstream (Site # 4)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.222
JJ-0793-MS	5/17/2006 1030	Ouachita Upstream (Site # 4)	Matrix Spike	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	1.03
JJ-0793-MSD	5/17/2006 1030	Ouachita Upstream (Site # 4)	MS Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	1.04
Expected Increase								0.796
<b>%R MS</b>								<b>102</b>
<b>% R MSD</b>								<b>103</b>
<b>RPD</b>								<b>1.0</b>
JJ-1976	6/6/2006 0805	Reference (Site # 1)	Manual FDUP	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	0.248
JJ-1976-MS	6/6/2006 0805	Reference (Site # 1)	Matrix Spike	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	1.09
JJ-1976-MSD	6/6/2006 0805	Reference (Site # 1)	MS Duplicate	Surface Water	Total Rec.	EPA 1632 (mod)	6/23/2006	1.04
Expected Increase								0.796
<b>%R MS</b>								<b>106</b>
<b>% R MSD</b>								<b>99</b>
<b>RPD</b>								<b>4.7</b>

EPA/ UA/ Parsons Ouachita TMDL Study  
 Final Total Rec.Aqueous Selenium Data for Event # 4 (Collected 16-17 May 2006) and Event # 5 (Collected 6-7 June 2006)  
 (Data Report J0818-9457-002)

Sample ID	Coll Date	Location	Sample Type	Matrix	Processing	Method	Anal. Date	Se (ppb)
<b>Blank Spikes</b>								
BS-47		Albion Env.	Digestion Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	1.06
Expected								1.04
%R								<b>102</b>
BS-55		Albion Env.	Digestion Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	1.01
Expected								1.04
%R								<b>97</b>
LCS-2		Albion Env.	Bench Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	0.458
Expected								0.531
%R								<b>86</b>
LCS-3		Albion Env.	Bench Blank Spike	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	0.480
Expected								0.531
%R								<b>90</b>
ICV-48		Albion Env.	Ind. Check Std.	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	1.08
Expected								1.04
%R								<b>104</b>
ICV-56		Albion Env.	Ind. Check Std.	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	1.11
Expected								1.04
%R								<b>107</b>
<b>Percent Recovery at or below Method Reporting Limit</b>								
STD-0.1		Albion Env.	Cal. Std.	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	0.108
Expected								0.100
%R								<b>108</b>
<b>Method Blanks</b>								
MBLK-54		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	< 0.10
MBLK-55		Albion Env.	Method Blank	DIW	Total Rec.	EPA 1632 (mod)	6/23/2006	< 0.10



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

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LABORATORY ANALYSIS

Date of Report: May 30, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: REFERENCE 5-15

ANALYTE	RESULT UNITS	METHOD
True color	82.000 units	2120 B
Apparent color	193.700 units	2120 B

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

Collected by:

A J KAUFAM on 05/16/06 at 8:05

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  
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SUITE 200  
8000 CENTRE PARK DRIVE  
AUSTIN, TX 78754-

Laboratory Number: 7078.002

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



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QUALITY ASSURANCE

May 17, 2006

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	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	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: 7078.002 KAC



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LABORATORY ANALYSIS

Date of Report: May 30, 2006  
 Date Received : May 17, 2006

For: PARSONS  
 8000 CENTRE PARK DR., SUITE 200  
 AUSTIN, TX 78754-  
 Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
 Sample From: COFFEE CREEK 5-15

ANALYTE	RESULT UNITS	METHOD
True color	1031.900 units	2120 B
Apparent color	1160.300 units	2120 B

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

Collected by:

A J KAUFMAN on 05/16/06 at 9:40

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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MR. STEPHEN MANNING

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SUITE 200  
 8000 CENTRE PARK DRIVE  
 AUSTIN, TX 78754-

Laboratory Number: 7078.003

KAC Reviewed By: K. E. Sorrells, M.S. [ 10 ]



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QUALITY ASSURANCE

May 17, 2006

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	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	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  
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CAS = Cecil A. Sorrells  
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TJS = Todd J. Sanders  
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Laboratory Number: 7078.003 KAC



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LABORATORY ANALYSIS

Date of Report: May 30, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: MOSSY LAKE 5-15

ANALYTE	RESULT UNITS	METHOD
True color	822.600 units	2120 B
Apparent color	882.600 units	2120 B

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

Collected by:

A J KAUFMAN on 05/16/06 at 11:55

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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MR. STEPHEN MANNING

10521 ROSEHAVEN STREET  
FAIRFAX, VA 22030-

SUITE 200  
8000 CENTRE PARK DRIVE  
AUSTIN, TX 78754-

Laboratory Number: 7078.001

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



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# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

8002 Stanton Road  
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Phone 501-562-8139  
 Fax 501-562-7025  
 Toll Free 1-800-331-8139

## QUALITY ASSURANCE

May 17, 2006

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	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	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: 7078.001 KAC



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LABORATORY ANALYSIS

Date of Report: May 30, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: OUACHITA UP 5-15

ANALYTE	RESULT UNITS	METHOD
True color	99.100 units	2120 B
Apparent color	148.600 units	2120 B

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

Collected by:

A J KAUFMAN on 05/17/06 at 8:55

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:

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MR. STEPHEN MANNING

10521 ROSEHAVEN STREET  
FAIRFAX, VA 22030-

SUITE 200  
8000 CENTRE PARK DRIVE  
AUSTIN, TX 78754-

Laboratory Number: 7078.004

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



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May 17, 2006

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Apparent color	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	7

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
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Laboratory Number: 7078.004 KAC



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LABORATORY ANALYSIS

Date of Report: May 30, 2006  
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For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: OUACHITA DN 5-15

ANALYTE	RESULT UNITS	METHOD
True color	108.100 units	2120 B
Apparent color	136.600 units	2120 B

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

Collected by:  
A J KAUFMAN on 05/17/06 at 9:10  
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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AUSTIN, TX 78754-

Laboratory Number: 7078.006

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



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QUALITY ASSURANCE

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Apparent color	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	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: May 19, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: E. COLI ANALYSIS ON WATER  
Sample From: OUACHITA UP 5-16

ANALYTE	RESULT	UNITS	METHOD
E. Coli Bacteria	32.000	#/100 ml	9260 F

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

Collected by:

A J KAUFMAN on 05/17/06 at 8:55

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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AUSTIN, TX 78754-

Laboratory Number: 7078.005

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



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**QUALITY ASSURANCE**

May 17, 2006

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ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
E. Coli Bacteria	KESII	05/17/06	1330	05/18/06	1445	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  
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JHD = J. Henry Dodson

Laboratory Number: 7078.005 KAC



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LABORATORY ANALYSIS

Date of Report: May 19, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: E. COLI ANALYSIS ON WATER  
Sample From: OUACHITA DN 5-16

ANALYTE	RESULT	UNITS	METHOD
E. Coli Bacteria	27.000	#/100 ml	9260 F

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

Collected by:  
A J KAUFMAN on 05/17/06 at 9:10  
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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AUSTIN, TX 78754-

Laboratory Number: 7078.007

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



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QUALITY ASSURANCE

May 17, 2006

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	KESII	05/17/06	1330	05/18/06	1445	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 ANALYSIS

Date of Report: May 30, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: FIELD DUPLICATE 5-15

ANALYTE	RESULT UNITS	METHOD
True color	102.000 units	2120 B
Apparent color	145.500 units	2120 B

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

Collected by:

A J KAUFMAN on 05/17/06 at 8:55

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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8000 CENTRE PARK DRIVE  
AUSTIN, TX 78754-

Laboratory Number: 7078.008

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



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QUALITY ASSURANCE

May 17, 2006

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ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Apparent color	CAS	05/18/06	1600	05/19/06	1300	0.30	99.4	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: May 19, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: E. COLI ANALYSIS ON WATER  
Sample From: FIELD DUPLICATE 5-16

ANALYTE	RESULT UNITS	METHOD
E. Coli Bacteria	28.000 #/100 ml	9260 F

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

Collected by:

A J KAUFMAN on 05/17/06 at 8:55

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  
8000 CENTRE PARK DRIVE  
AUSTIN, TX 78754-

Laboratory Number: 7078.009

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



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ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
E. Coli Bacteria	KESII	05/17/06	1330	05/18/06	1445	0.00	0.0	4

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Date of Report: May 30, 2006  
Date Received : May 17, 2006

For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-  
Job: TRUE & APPARENT COLOR ANALYSIS ON WATER.  
Sample From: FIELD BLANK 5-15

ANALYTE		RESULT UNITS	METHOD
True color	=	0.000 units	2120 B
Apparent color	=	0.000 units	2120 B

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

Collected by:  
A J KAUFMAN on 05/17/06 at 8:40  
Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

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Laboratory Number: 7078.010

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



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LABORATORY ANALYSIS

Date of Report: May 19, 2006  
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For: PARSONS  
8000 CENTRE PARK DR., SUITE 200  
AUSTIN, TX 78754-

Job: E. COLI ANALYSIS ON WATER

Sample From: FIELD BLANK 5-16

ANALYTE		RESULT	UNITS	METHOD
E. Coli Bacteria	=	0.000	#/100 ml	9260 F

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

Collected by:

A J KAUFMAN on 05/17/06 at 8:40

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

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Laboratory Number: 7078.011

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



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**QUALITY ASSURANCE**

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E. Coli Bacteria	KESII	05/17/06	1330	05/18/06	1445	0.00	0.0	4

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