



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0480

Project: 11-0480, Ogeechee River Fish Kill 2011 - Reported by Jeannie Williamson

June 1, 2011

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 11-0480, Ogeechee River Fish Kill 2011
Superfund Emergency Response and Removal

FROM: Jeannie Williamson
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Jose Negron

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Organochlorine Pesticides (OCP)

Organochlorine pesticides

EPA 8081

Physical Properties (PHYSP)

Physical Properties

ASB E100



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Report Narrative for Work Order E112205, Project: 11-0480

Samples were processed according to the Ecological Assessment Branch's standard operating procedure. Routine tissue sample preparation and analyses for metals were performed by the Inorganic Chemistry Section of the Analytical Support Branch.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
STA02	E112204-01	Fish	5/22/11 11:00	5/23/11 10:56
STA02	E112204-02	Fish	5/22/11 11:05	5/23/11 10:56
STA02	E112204-03	Fish	5/22/11 11:10	5/23/11 10:56
STA02	E112204-04	Fish	5/22/11 11:15	5/23/11 10:56
STA05	E112204-05	Fish	5/22/11 18:10	5/23/11 10:56
STA06	E112205-01	Fish	5/23/11 00:00	5/24/11 10:51



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-4	Greater than 40 % difference between primary and confirmatory GC columns
Q-6	Appropriate QC not prepared and/or analyzed with this sample.
QL-1	Laboratory Control Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-01

Station ID: OR-02-FI-01

Matrix: Fish

Date Collected: 5/22/11 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 20:48	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0090		mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 20:48	EPA 8081
309-00-2	Aldrin	0.0010	U, J, QL-1	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 20:48	EPA 8081
5103-71-9	alpha-Chlordane	0.0018		mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
60-57-1	Dieldrin	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 20:48	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 20:48	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 20:48	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 20:48	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 20:48	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 20:48	EPA 8081
5566-34-7	gamma-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	5/25/11 16:45	5/26/11 20:48	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 20:48	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 20:48	EPA 8081
8001-35-2	Toxaphene	0.10	U, J, Q-6	mg/kg	0.10	5/25/11 16:45	5/26/11 20:48	EPA 8081



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Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-01

Station ID: OR-02-FI-01

Matrix: Fish

Date Collected: 5/22/11 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.8		%		5/26/11 14:30	5/27/11 14:30	ASB E100



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Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-02

Station ID: OR-02-FI-02

Matrix: Fish

Date Collected: 5/22/11 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:04	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0026		mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:04	EPA 8081
309-00-2	Aldrin	0.0010	U, J, QL-1	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:04	EPA 8081
5103-71-9	alpha-Chlordane	0.0013	J, Q-4	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
60-57-1	Dieldrin	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:04	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:04	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:04	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:04	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:04	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:04	EPA 8081
5566-34-7	gamma-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	5/25/11 16:45	5/26/11 21:04	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:04	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 21:04	EPA 8081
8001-35-2	Toxaphene	0.10	U, J, Q-6	mg/kg	0.10	5/25/11 16:45	5/26/11 21:04	EPA 8081



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Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-02

Station ID: OR-02-FI-02

Matrix: Fish

Date Collected: 5/22/11 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.7		%		5/26/11 14:30	5/27/11 14:30	ASB E100



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Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-03

Station ID: OR-02-FI-03

Matrix: Fish

Date Collected: 5/22/11 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:21	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.011		mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:21	EPA 8081
309-00-2	Aldrin	0.0010	U, J, QL-1	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:21	EPA 8081
5103-71-9	alpha-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
60-57-1	Dieldrin	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:21	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:21	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:21	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:21	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:21	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:21	EPA 8081
5566-34-7	gamma-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	5/25/11 16:45	5/26/11 21:21	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:21	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 21:21	EPA 8081
8001-35-2	Toxaphene	0.10	U, J, Q-6	mg/kg	0.10	5/25/11 16:45	5/26/11 21:21	EPA 8081



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Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-03

Station ID: OR-02-FI-03

Matrix: Fish

Date Collected: 5/22/11 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	11		%		5/26/11 14:30	5/27/11 14:30	ASB E100



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Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-04

Station ID: OR-02-FI-04

Matrix: Fish

Date Collected: 5/22/11 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:37	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0040		mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:37	EPA 8081
309-00-2	Aldrin	0.0010	U, J, QL-1	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:37	EPA 8081
5103-71-9	alpha-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
60-57-1	Dieldrin	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:37	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:37	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:37	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:37	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:37	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:37	EPA 8081
5566-34-7	gamma-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	5/25/11 16:45	5/26/11 21:37	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:37	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 21:37	EPA 8081
8001-35-2	Toxaphene	0.10	U, J, Q-6	mg/kg	0.10	5/25/11 16:45	5/26/11 21:37	EPA 8081



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Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA02

Lab ID: E112204-04

Station ID: OR-02-FI-04

Matrix: Fish

Date Collected: 5/22/11 11:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.5		%		5/26/11 14:30	5/27/11 14:30	ASB E100



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Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA05

Lab ID: E112204-05

Station ID: OR-05-FI-05

Matrix: Fish

Date Collected: 5/22/11 18:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:53	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0039		mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:53	EPA 8081
309-00-2	Aldrin	0.0010	U, J, QL-1	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:53	EPA 8081
5103-71-9	alpha-Chlordane	0.0014	J, Q-4	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
319-85-7	beta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
319-86-8	delta-BHC	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
60-57-1	Dieldrin	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
959-98-8	Endosulfan I (alpha)	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:53	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:53	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 21:53	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:53	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 21:53	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 21:53	EPA 8081
5566-34-7	gamma-Chlordane	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
76-44-8	Heptachlor	0.00075	U	mg/kg	0.00075	5/25/11 16:45	5/26/11 21:53	EPA 8081
1024-57-3	Heptachlor epoxide	0.0010	U	mg/kg	0.0010	5/25/11 16:45	5/26/11 21:53	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 21:53	EPA 8081
8001-35-2	Toxaphene	0.10	U, J, Q-6	mg/kg	0.10	5/25/11 16:45	5/26/11 21:53	EPA 8081



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0480

Project: 11-0480, Ogeechee River Fish Kill 2011 - Reported by Jeannie Williamson

Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA05

Lab ID: E112204-05

Station ID: OR-05-FI-05

Matrix: Fish

Date Collected: 5/22/11 18:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	4.3		%		5/26/11 14:30	5/27/11 14:30	ASB E100



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Project: 11-0480, Ogeechee River Fish Kill 2011 - Reported by Jeannie Williamson

Organochlorine Pesticides

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA06

Lab ID: E112205-01

Station ID: OR-06-FI-06

Matrix: Fish

Date Collected: 5/23/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 22:09	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.0026		mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 22:09	EPA 8081
309-00-2	Aldrin	0.00099	U, J, QL-1	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
319-84-6	alpha-BHC	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 22:09	EPA 8081
5103-71-9	alpha-Chlordane	0.0011		mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
319-85-7	beta-BHC	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
319-86-8	delta-BHC	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
60-57-1	Dieldrin	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
959-98-8	Endosulfan I (alpha)	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
33213-65-9	Endosulfan II (beta)	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 22:09	EPA 8081
1031-07-8	Endosulfan Sulfate	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 22:09	EPA 8081
72-20-8	Endrin	0.0020	U	mg/kg	0.0020	5/25/11 16:45	5/26/11 22:09	EPA 8081
7421-93-4	Endrin aldehyde	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 22:09	EPA 8081
53494-70-5	Endrin ketone	0.0025	U	mg/kg	0.0025	5/25/11 16:45	5/26/11 22:09	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.00050	U	mg/kg	0.00050	5/25/11 16:45	5/26/11 22:09	EPA 8081
5566-34-7	gamma-Chlordane	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
76-44-8	Heptachlor	0.00074	U	mg/kg	0.00074	5/25/11 16:45	5/26/11 22:09	EPA 8081
1024-57-3	Heptachlor epoxide	0.00099	U	mg/kg	0.00099	5/25/11 16:45	5/26/11 22:09	EPA 8081
72-43-5	Methoxychlor	0.0050	U	mg/kg	0.0050	5/25/11 16:45	5/26/11 22:09	EPA 8081
8001-35-2	Toxaphene	0.099	U, J, Q-6	mg/kg	0.099	5/25/11 16:45	5/26/11 22:09	EPA 8081



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D.A.R.T. Id: 11-0480

Project: 11-0480, Ogeechee River Fish Kill 2011 - Reported by Jeannie Williamson

Physical Properties

Project: 11-0480, Ogeechee River Fish Kill 2011

Sample ID: STA06

Lab ID: E112205-01

Station ID: OR-06-FI-06

Matrix: Fish

Date Collected: 5/23/11 0:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.7		%		5/26/11 14:30	5/27/11 14:30	ASB E100