

July 01, 2009

Devin Sprinkle
Chicago Central & Pacific Railroad
17641 South Ashland Ave
Homewood, IL 60430

RE: Project: PERRYVILLE, IL
Pace Project No.: 4019217

Dear Devin Sprinkle:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11887

New York Certification #: 11888
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4019217001	FWS 1 AND 2	Water	06/22/09 16:10	06/26/09 19:45
4019217002	FWS 3 AND 4	Water	06/24/09 15:25	06/26/09 19:45
4019217003	TRIP BLANK	Water	06/22/09 00:00	06/26/09 19:45

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SAMPLE ANALYTE COUNT

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4019217001	FWS 1 AND 2	EPA 350.1	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8081	DMH	24	PASI-G
		EPA 8260	SMT	39	PASI-G
		SM 9222D	DEY	1	PASI-G
4019217002	FWS 3 AND 4	EPA 350.1	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8081	DMH	24	PASI-G
		EPA 8260	SMT	39	PASI-G
		SM 9222D	DEY	1	PASI-G
4019217003	TRIP BLANK	EPA 8260	SMT	39	PASI-G

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: EPA 8081

Description: 8081 GCS Pesticides

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

2 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/2929

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/4640

C3: Relative percent difference between results from each column was greater than 40%. The higher of the two results was reported.

- FWS 1 AND 2 (Lab ID: 4019217001)
- Endosulfan I

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: SM 9222D

Description: 9222D MICRO Fecal Coli by MF

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

2 samples were analyzed for SM 9222D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received outside the recognized method holding time.

- FWS 1 AND 2 (Lab ID: 4019217001)
- FWS 3 AND 4 (Lab ID: 4019217002)

Sample Preparation:

The samples were prepared in accordance with SM 9222D with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: EPA 8260

Description: 8260 MSV

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: EPA 8260

Description: 8260 MSV Oxygenates

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: EPA 350.1

Description: 350.1 Ammonia, Distilled

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

2 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/4162

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4018871002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 176186)
 - Nitrogen, Ammonia
- MSD (Lab ID: 176187)
 - Nitrogen, Ammonia

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/4162

- FWS 1 AND 2 (Lab ID: 4019217001)
 - Nitrogen, Ammonia

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PROJECT NARRATIVE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Chicago Central & Pacific Railroad

Date: July 01, 2009

General Information:

2 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: PERRYVILLE, IL
Pace Project No.: 4019217

Sample: FWS 1 AND 2		Lab ID: 4019217001	Collected: 06/22/09 16:10	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3510						
Aldrin	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	309-00-2	
alpha-BHC	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	319-84-6	
beta-BHC	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	319-85-7	
delta-BHC	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	319-86-8	
gamma-BHC (Lindane)	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	58-89-9	
Chlordane (Technical)	ND ug/L		1.0	1	06/29/09 08:00	06/29/09 12:36	57-74-9	
alpha-Chlordane	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	5103-71-9	
gamma-Chlordane	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	5103-74-2	
4,4'-DDD	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	72-54-8	
4,4'-DDE	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	72-55-9	
4,4'-DDT	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	50-29-3	
Dieldrin	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	60-57-1	
Endosulfan I	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	959-98-8	C3
Endosulfan II	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	33213-65-9	
Endosulfan sulfate	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	1031-07-8	
Endrin	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	72-20-8	
Endrin aldehyde	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	7421-93-4	
Endrin ketone	ND ug/L		0.10	1	06/29/09 08:00	06/29/09 12:36	53494-70-5	
Heptachlor	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	76-44-8	
Heptachlor epoxide	ND ug/L		0.050	1	06/29/09 08:00	06/29/09 12:36	1024-57-3	
Methoxychlor	ND ug/L		0.50	1	06/29/09 08:00	06/29/09 12:36	72-43-5	
Toxaphene	ND ug/L		3.0	1	06/29/09 08:00	06/29/09 12:36	8001-35-2	
Tetrachloro-m-xylene (S)	64 %		52-130	1	06/29/09 08:00	06/29/09 12:36	877-09-8	
Decachlorobiphenyl (S)	69 %		43-130	1	06/29/09 08:00	06/29/09 12:36	2051-24-3	
9222D MICRO Fecal Coli by MF		Analytical Method: SM 9222D Preparation Method: SM 9222D						
Fecal Coliforms	791 CFU/100 mL		9.1	9.1	06/27/09 15:00	06/27/09 15:00		H3
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		06/27/09 09:29	67-64-1	
Benzene	ND ug/L		1.0	1		06/27/09 09:29	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/27/09 09:29	75-27-4	
Bromoform	ND ug/L		1.0	1		06/27/09 09:29	75-25-2	
Bromomethane	ND ug/L		1.0	1		06/27/09 09:29	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	1		06/27/09 09:29	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		06/27/09 09:29	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/27/09 09:29	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/27/09 09:29	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/27/09 09:29	75-00-3	
Chloroform	ND ug/L		5.0	1		06/27/09 09:29	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/27/09 09:29	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/27/09 09:29	124-48-1	
1,1-Dichloroethane	ND ug/L		1.0	1		06/27/09 09:29	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/27/09 09:29	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:29	156-59-2	

Date: 07/01/2009 08:03 AM

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ANALYTICAL RESULTS

Project: PERRYVILLE, IL
Pace Project No.: 4019217

Sample: FWS 1 AND 2		Lab ID: 4019217001	Collected: 06/22/09 16:10	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:29	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/27/09 09:29	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 09:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 09:29	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/27/09 09:29	100-41-4	
2-Hexanone	ND ug/L		5.0	1		06/27/09 09:29	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		06/27/09 09:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		06/27/09 09:29	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/27/09 09:29	1634-04-4	
Styrene	ND ug/L		1.0	1		06/27/09 09:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/27/09 09:29	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/27/09 09:29	127-18-4	
Toluene	ND ug/L		1.0	1		06/27/09 09:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/27/09 09:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/27/09 09:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/27/09 09:29	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/27/09 09:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/27/09 09:29	1330-20-7	
4-Bromofluorobenzene (S)	100 %		70-130	1		06/27/09 09:29	460-00-4	
Dibromofluoromethane (S)	92 %		70-130	1		06/27/09 09:29	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		06/27/09 09:29	2037-26-5	
8260 MSV Oxygenates		Analytical Method: EPA 8260						
Ethanol	ND ug/L		200	1		06/27/09 09:29	64-17-5	
Dibromofluoromethane (S)	92 %		70-130	1		06/27/09 09:29	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		06/27/09 09:29	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130	1		06/27/09 09:29	460-00-4	
350.1 Ammonia, Distilled		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	ND mg/L		0.50	1		06/28/09 13:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	2.5 mg/L		0.25	1		06/28/09 14:19		

Sample: FWS 3 AND 4		Lab ID: 4019217002	Collected: 06/24/09 15:25	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3510						
Aldrin	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	309-00-2	
alpha-BHC	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	319-84-6	
beta-BHC	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	319-85-7	
delta-BHC	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	319-86-8	
gamma-BHC (Lindane)	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	58-89-9	
Chlordane (Technical)	ND ug/L		1.1	1	06/29/09 08:00	06/29/09 13:03	57-74-9	

Date: 07/01/2009 08:03 AM

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ANALYTICAL RESULTS

Project: PERRYVILLE, IL
Pace Project No.: 4019217

Sample: FWS 3 AND 4		Lab ID: 4019217002	Collected: 06/24/09 15:25	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3510						
alpha-Chlordane	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	5103-71-9	
gamma-Chlordane	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	5103-74-2	
4,4'-DDD	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	72-54-8	
4,4'-DDE	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	72-55-9	
4,4'-DDT	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	50-29-3	
Dieldrin	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	60-57-1	
Endosulfan I	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	959-98-8	
Endosulfan II	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	33213-65-9	
Endosulfan sulfate	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	1031-07-8	
Endrin	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	72-20-8	
Endrin aldehyde	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	7421-93-4	
Endrin ketone	ND ug/L		0.11	1	06/29/09 08:00	06/29/09 13:03	53494-70-5	
Heptachlor	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	76-44-8	
Heptachlor epoxide	ND ug/L		0.056	1	06/29/09 08:00	06/29/09 13:03	1024-57-3	
Methoxychlor	ND ug/L		0.56	1	06/29/09 08:00	06/29/09 13:03	72-43-5	
Toxaphene	ND ug/L		3.4	1	06/29/09 08:00	06/29/09 13:03	8001-35-2	
Tetrachloro-m-xylene (S)	70 %		52-130	1	06/29/09 08:00	06/29/09 13:03	877-09-8	
Decachlorobiphenyl (S)	62 %		43-130	1	06/29/09 08:00	06/29/09 13:03	2051-24-3	
9222D MICRO Fecal Coli by MF		Analytical Method: SM 9222D Preparation Method: SM 9222D						
Fecal Coliforms	320 CFU/100 mL		10.0	10	06/27/09 15:00	06/27/09 15:00		H3
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		06/27/09 10:17	67-64-1	
Benzene	ND ug/L		1.0	1		06/27/09 10:17	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/27/09 10:17	75-27-4	
Bromoform	ND ug/L		1.0	1		06/27/09 10:17	75-25-2	
Bromomethane	ND ug/L		1.0	1		06/27/09 10:17	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	1		06/27/09 10:17	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		06/27/09 10:17	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/27/09 10:17	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/27/09 10:17	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/27/09 10:17	75-00-3	
Chloroform	ND ug/L		5.0	1		06/27/09 10:17	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/27/09 10:17	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/27/09 10:17	124-48-1	
1,1-Dichloroethane	ND ug/L		1.0	1		06/27/09 10:17	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/27/09 10:17	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/27/09 10:17	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 10:17	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 10:17	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/27/09 10:17	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 10:17	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 10:17	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/27/09 10:17	100-41-4	
2-Hexanone	ND ug/L		5.0	1		06/27/09 10:17	591-78-6	

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ANALYTICAL RESULTS

Project: PERRYVILLE, IL
Pace Project No.: 4019217

Sample: FWS 3 AND 4		Lab ID: 4019217002	Collected: 06/24/09 15:25	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Methylene Chloride	ND ug/L		1.0	1		06/27/09 10:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		06/27/09 10:17	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/27/09 10:17	1634-04-4	
Styrene	ND ug/L		1.0	1		06/27/09 10:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/27/09 10:17	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/27/09 10:17	127-18-4	
Toluene	ND ug/L		1.0	1		06/27/09 10:17	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/27/09 10:17	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/27/09 10:17	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/27/09 10:17	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/27/09 10:17	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/27/09 10:17	1330-20-7	
4-Bromofluorobenzene (S)	98 %		70-130	1		06/27/09 10:17	460-00-4	
Dibromofluoromethane (S)	93 %		70-130	1		06/27/09 10:17	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		06/27/09 10:17	2037-26-5	
8260 MSV Oxygenates		Analytical Method: EPA 8260						
Ethanol	ND ug/L		200	1		06/27/09 10:17	64-17-5	
Dibromofluoromethane (S)	93 %		70-130	1		06/27/09 10:17	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		06/27/09 10:17	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130	1		06/27/09 10:17	460-00-4	
350.1 Ammonia, Distilled		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	ND mg/L		0.50	1		06/28/09 13:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	5.6 mg/L		0.25	1		06/28/09 14:20		

Sample: TRIP BLANK		Lab ID: 4019217003	Collected: 06/22/09 00:00	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		20.0	1		06/27/09 09:53	67-64-1	
Benzene	ND ug/L		1.0	1		06/27/09 09:53	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/27/09 09:53	75-27-4	
Bromoform	ND ug/L		1.0	1		06/27/09 09:53	75-25-2	
Bromomethane	ND ug/L		1.0	1		06/27/09 09:53	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	1		06/27/09 09:53	78-93-3	
Carbon disulfide	ND ug/L		1.0	1		06/27/09 09:53	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/27/09 09:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/27/09 09:53	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/27/09 09:53	75-00-3	
Chloroform	ND ug/L		5.0	1		06/27/09 09:53	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/27/09 09:53	74-87-3	

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ANALYTICAL RESULTS

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Sample: TRIP BLANK		Lab ID: 4019217003	Collected: 06/22/09 00:00	Received: 06/26/09 19:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Dibromochloromethane	ND ug/L		1.0	1		06/27/09 09:53	124-48-1	
1,1-Dichloroethane	ND ug/L		1.0	1		06/27/09 09:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/27/09 09:53	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/27/09 09:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/27/09 09:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 09:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/27/09 09:53	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/27/09 09:53	100-41-4	
2-Hexanone	ND ug/L		5.0	1		06/27/09 09:53	591-78-6	
Methylene Chloride	ND ug/L		1.0	1		06/27/09 09:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	1		06/27/09 09:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/27/09 09:53	1634-04-4	
Styrene	ND ug/L		1.0	1		06/27/09 09:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/27/09 09:53	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/27/09 09:53	127-18-4	
Toluene	ND ug/L		1.0	1		06/27/09 09:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/27/09 09:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/27/09 09:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/27/09 09:53	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/27/09 09:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/27/09 09:53	1330-20-7	
4-Bromofluorobenzene (S)	97 %		70-130	1		06/27/09 09:53	460-00-4	
Dibromofluoromethane (S)	94 %		70-130	1		06/27/09 09:53	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		06/27/09 09:53	2037-26-5	
8260 MSV Oxygenates		Analytical Method: EPA 8260						
Ethanol	ND ug/L		200	1		06/27/09 09:53	64-17-5	
Dibromofluoromethane (S)	94 %		70-130	1		06/27/09 09:53	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		06/27/09 09:53	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		06/27/09 09:53	460-00-4	

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch:	MSV/4849	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	4019217001, 4019217002, 4019217003		

METHOD BLANK:	175982	Matrix:	Water
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Associated Lab Samples: 4019217001, 4019217002, 4019217003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/27/09 07:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/27/09 07:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/27/09 07:08	
1,1-Dichloroethane	ug/L	ND	1.0	06/27/09 07:08	
1,1-Dichloroethene	ug/L	ND	1.0	06/27/09 07:08	
1,2-Dichloroethane	ug/L	ND	1.0	06/27/09 07:08	
1,2-Dichloropropene	ug/L	ND	1.0	06/27/09 07:08	
2-Butanone (MEK)	ug/L	ND	20.0	06/27/09 07:08	
2-Hexanone	ug/L	ND	5.0	06/27/09 07:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/27/09 07:08	
Acetone	ug/L	ND	20.0	06/27/09 07:08	
Benzene	ug/L	ND	1.0	06/27/09 07:08	
Bromodichloromethane	ug/L	ND	1.0	06/27/09 07:08	
Bromoform	ug/L	ND	1.0	06/27/09 07:08	
Bromomethane	ug/L	ND	1.0	06/27/09 07:08	
Carbon disulfide	ug/L	ND	1.0	06/27/09 07:08	
Carbon tetrachloride	ug/L	ND	1.0	06/27/09 07:08	
Chlorobenzene	ug/L	ND	1.0	06/27/09 07:08	
Chloroethane	ug/L	ND	1.0	06/27/09 07:08	
Chloroform	ug/L	ND	5.0	06/27/09 07:08	
Chloromethane	ug/L	ND	1.0	06/27/09 07:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/27/09 07:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/27/09 07:08	
Dibromochloromethane	ug/L	ND	1.0	06/27/09 07:08	
Ethylbenzene	ug/L	ND	1.0	06/27/09 07:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/27/09 07:08	
Methylene Chloride	ug/L	ND	1.0	06/27/09 07:08	
Styrene	ug/L	ND	1.0	06/27/09 07:08	
Tetrachloroethene	ug/L	ND	1.0	06/27/09 07:08	
Toluene	ug/L	ND	1.0	06/27/09 07:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/27/09 07:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/27/09 07:08	
Trichloroethene	ug/L	ND	1.0	06/27/09 07:08	
Vinyl chloride	ug/L	ND	1.0	06/27/09 07:08	
Xylene (Total)	ug/L	ND	3.0	06/27/09 07:08	
4-Bromofluorobenzene (S)	%	98	70-130	06/27/09 07:08	
Dibromofluoromethane (S)	%	94	70-130	06/27/09 07:08	
Toluene-d8 (S)	%	102	70-130	06/27/09 07:08	

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

LABORATORY CONTROL SAMPLE & LCSD:		175983	175984							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	50.2	98	100	70-132	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	40.3	41.3	81	83	69-130	2	20	
1,1,2-Trichloroethane	ug/L	50	45.4	45.9	91	92	70-130	1	20	
1,1-Dichloroethane	ug/L	50	47.2	48.2	94	96	70-130	2	20	
1,1-Dichloroethene	ug/L	50	51.2	51.9	102	104	70-130	1	20	
1,2-Dichloroethane	ug/L	50	45.3	46.5	91	93	70-134	3	20	
1,2-Dichloropropane	ug/L	50	49.1	50.0	98	100	70-130	2	20	
2-Butanone (MEK)	ug/L	50	38.1	40.0	76	80	36-181	5	35	
2-Hexanone	ug/L	50	36.7	37.3	73	75	46-171	2	27	
4-Methyl-2-pentanone (MIBK)	ug/L	50	38.9	42.7	78	85	50-150	9	20	
Acetone	ug/L	50	41.5	38.5	83	77	10-200	8	36	
Benzene	ug/L	50	48.5	49.4	97	99	70-131	2	20	
Bromodichloromethane	ug/L	50	46.4	47.5	93	95	70-130	2	20	
Bromoform	ug/L	50	40.4	41.4	81	83	70-130	3	20	
Bromomethane	ug/L	50	49.5	55.5	99	111	23-200	11	20	
Carbon disulfide	ug/L	50	48.5	50.5	97	101	70-138	4	20	
Carbon tetrachloride	ug/L	50	49.5	51.6	99	103	70-144	4	20	
Chlorobenzene	ug/L	50	50.4	51.2	101	102	70-130	1	20	
Chloroethane	ug/L	50	50.7	53.8	101	108	70-136	6	20	
Chloroform	ug/L	50	47.5	48.6	95	97	70-130	2	20	
Chloromethane	ug/L	50	44.7	46.5	89	93	54-148	4	20	
cis-1,2-Dichloroethene	ug/L	50	47.6	49.0	95	98	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	50	47.8	49.2	96	98	70-130	3	20	
Dibromochloromethane	ug/L	50	45.0	45.2	90	90	70-130	.6	20	
Ethylbenzene	ug/L	50	51.6	51.8	103	104	70-130	.4	20	
Methylene Chloride	ug/L	50	47.6	48.6	95	97	66-130	2	20	
Styrene	ug/L	50	48.9	49.1	98	98	70-130	.5	20	
Tetrachloroethene	ug/L	50	54.5	53.6	109	107	75-130	2	20	
Toluene	ug/L	50	50.6	50.1	101	100	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	48.3	50.6	97	101	70-130	5	20	
trans-1,3-Dichloropropene	ug/L	50	44.2	45.1	88	90	70-130	2	20	
Trichloroethene	ug/L	50	52.8	52.6	106	105	70-130	.3	20	
Vinyl chloride	ug/L	50	49.3	51.7	99	103	63-141	5	20	
Xylene (Total)	ug/L	150	158	156	105	104	70-130	.7	20	
4-Bromofluorobenzene (S)	%				100	99	70-130			
Dibromofluoromethane (S)	%				92	94	70-130			
Toluene-d8 (S)	%				102	101	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			175985		175986							
Parameter	Units	4019217001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Spike	Spike								
1,1,1-Trichloroethane	ug/L	ND	50	50	49.1	49.8	98	100	70-137	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	40.5	40.8	81	82	67-130	.7	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.7	45.3	91	91	70-130	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	45.3	46.1	91	92	70-130	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.8	50.7	100	101	70-130	2	20	

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QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 175985 175986											
Parameter	Units	4019217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	44.3	44.9	89	90	69-134	1	20
1,2-Dichloropropane	ug/L	ND	50	50	48.3	48.7	97	97	70-130	.8	20
2-Butanone (MEK)	ug/L	ND	50	50	38.7	38.1	77	76	36-181	2	35
2-Hexanone	ug/L	ND	50	50	37.1	36.8	74	74	46-171	.8	27
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	40.6	39.9	81	80	50-150	2	20
Acetone	ug/L	ND	50	50	40.9	38.7	82	77	10-200	5	36
Benzene	ug/L	ND	50	50	47.6	47.8	95	96	69-131	.4	20
Bromodichloromethane	ug/L	ND	50	50	45.7	46.7	91	93	70-130	2	20
Bromoform	ug/L	ND	50	50	41.9	41.5	84	83	68-130	.8	20
Bromomethane	ug/L	ND	50	50	52.1	50.8	104	102	22-200	2	20
Carbon disulfide	ug/L	ND	50	50	48.1	48.0	96	96	68-138	.4	20
Carbon tetrachloride	ug/L	ND	50	50	50.5	51.4	101	103	70-144	2	20
Chlorobenzene	ug/L	ND	50	50	50.0	50.0	100	100	70-130	.09	20
Chloroethane	ug/L	ND	50	50	49.5	48.5	99	97	66-136	2	20
Chloroform	ug/L	ND	50	50	47.1	46.9	94	94	70-130	.5	20
Chloromethane	ug/L	ND	50	50	43.9	43.5	88	87	54-148	.8	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	47.0	47.8	94	96	70-130	2	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	46.7	46.8	93	94	70-130	.3	20
Dibromochloromethane	ug/L	ND	50	50	45.5	45.8	91	92	70-130	.7	20
Ethylbenzene	ug/L	ND	50	50	50.6	50.5	101	101	70-130	.3	20
Methylene Chloride	ug/L	ND	50	50	46.2	47.6	92	95	64-130	3	20
Styrene	ug/L	ND	50	50	47.6	46.8	95	94	43-130	2	20
Tetrachloroethene	ug/L	ND	50	50	54.3	54.5	109	109	70-130	.4	20
Toluene	ug/L	ND	50	50	49.8	50.0	100	100	70-130	.2	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.0	49.0	96	98	70-130	2	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.8	44.4	88	89	70-130	2	20
Trichloroethene	ug/L	ND	50	50	51.2	52.0	102	104	70-130	2	20
Vinyl chloride	ug/L	ND	50	50	47.5	48.1	95	96	59-141	1	20
Xylene (Total)	ug/L	ND	150	150	155	155	103	103	70-130	.3	20
4-Bromofluorobenzene (S)	%						97	100	70-130		
Dibromofluoromethane (S)	%						93	94	70-130		
Toluene-d8 (S)	%						102	101	70-130		

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch: WETA/4162

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia, Distilled

Associated Lab Samples: 4019217001, 4019217002

METHOD BLANK: 176184

Matrix: Water

Associated Lab Samples: 4019217001, 4019217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.50	06/28/09 13:27	

LABORATORY CONTROL SAMPLE: 176185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.9	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176186

176187

Parameter	Units	4018871002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.6	10	10	12.8	12.7	112	111	90-110	1	20	M0

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch: WETA/4163

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 4019217001, 4019217002

METHOD BLANK: 176188

Matrix: Water

Associated Lab Samples: 4019217001, 4019217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.25	06/28/09 14:16	

LABORATORY CONTROL SAMPLE: 176189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176190

176191

Parameter	Units	4019217002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.6	2.5	2.5	8.0	7.9	96	94	90-110	.9	20	

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch: OEXT/4640

Analysis Method: EPA 8081

QC Batch Method: EPA 3510

Analysis Description: 8081 GCS Pesticides

Associated Lab Samples: 4019217001, 4019217002

METHOD BLANK: 176219

Matrix: Water

Associated Lab Samples: 4019217001, 4019217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.10	06/29/09 11:16	
4,4'-DDE	ug/L	ND	0.10	06/29/09 11:16	
4,4'-DDT	ug/L	ND	0.10	06/29/09 11:16	
Aldrin	ug/L	ND	0.050	06/29/09 11:16	
alpha-BHC	ug/L	ND	0.050	06/29/09 11:16	
alpha-Chlordane	ug/L	ND	0.050	06/29/09 11:16	
beta-BHC	ug/L	ND	0.050	06/29/09 11:16	
Chlordane (Technical)	ug/L	ND	1.0	06/29/09 11:16	
delta-BHC	ug/L	ND	0.050	06/29/09 11:16	
Dieldrin	ug/L	ND	0.10	06/29/09 11:16	
Endosulfan I	ug/L	ND	0.050	06/29/09 11:16	
Endosulfan II	ug/L	ND	0.10	06/29/09 11:16	
Endosulfan sulfate	ug/L	ND	0.10	06/29/09 11:16	
Endrin	ug/L	ND	0.10	06/29/09 11:16	
Endrin aldehyde	ug/L	ND	0.10	06/29/09 11:16	
Endrin ketone	ug/L	ND	0.10	06/29/09 11:16	
gamma-BHC (Lindane)	ug/L	ND	0.050	06/29/09 11:16	
gamma-Chlordane	ug/L	ND	0.050	06/29/09 11:16	
Heptachlor	ug/L	ND	0.050	06/29/09 11:16	
Heptachlor epoxide	ug/L	ND	0.050	06/29/09 11:16	
Methoxychlor	ug/L	ND	0.50	06/29/09 11:16	
Toxaphene	ug/L	ND	3.0	06/29/09 11:16	
Decachlorobiphenyl (S)	%	75	43-130	06/29/09 11:16	
Tetrachloro-m-xylene (S)	%	66	52-130	06/29/09 11:16	

LABORATORY CONTROL SAMPLE & LCSD: 176220

176221

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4,4'-DDD	ug/L	.8	0.73	0.72	92	90	64-132	1	20	
4,4'-DDE	ug/L	.8	0.74	0.72	92	90	64-130	2	26	
4,4'-DDT	ug/L	.8	0.65	0.65	81	81	60-130	.2	25	
Aldrin	ug/L	.4	0.36	0.34	90	85	67-130	5	26	
alpha-BHC	ug/L	.4	0.39	0.38	99	96	70-138	3	20	
alpha-Chlordane	ug/L	.4	0.35	0.35	88	86	70-131	2	20	
beta-BHC	ug/L	.4	0.36	0.36	90	89	70-130	1	20	
Chlordane (Technical)	ug/L		ND	ND					20	
delta-BHC	ug/L	.4	0.40	0.39	99	97	70-141	2	20	
Dieldrin	ug/L	.8	0.74	0.74	93	92	70-130	.9	20	
Endosulfan I	ug/L	.4	0.33	0.33	83	81	62-133	1	20	
Endosulfan II	ug/L	.8	0.73	0.73	91	91	67-130	.6	20	
Endosulfan sulfate	ug/L	.8	0.71	0.71	89	88	70-130	.5	20	

Date: 07/01/2009 08:03 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

LABORATORY CONTROL SAMPLE & LCSD:		176220	176221							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin	ug/L	.8	0.77	0.76	96	95	66-133	.6	21	
Endrin aldehyde	ug/L	.8	0.66	0.67	83	84	54-130	.8	20	
Endrin ketone	ug/L	.8	0.67	0.67	84	84	70-130	.1	20	
gamma-BHC (Lindane)	ug/L	.4	0.38	0.38	96	94	70-130	2	20	
gamma-Chlordane	ug/L	.4	0.34	0.34	85	84	60-130	2	20	
Heptachlor	ug/L	.4	0.31	0.30	79	76	70-130	3	23	
Heptachlor epoxide	ug/L	.4	0.34	0.34	86	85	69-130	1	20	
Methoxychlor	ug/L	4	2.9	2.9	72	72	58-130	.06	20	
Toxaphene	ug/L		ND	ND					20	
Decachlorobiphenyl (S)	%				60	68	43-130			
Tetrachloro-m-xylene (S)	%				68	66	52-130			

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch: MBIO/1405

Analysis Method: SM 9222D

QC Batch Method: SM 9222D

Analysis Description: 9222D MICRO Fecal Coliform by MF

Associated Lab Samples: 4019217001, 4019217002

METHOD BLANK: 176381

Matrix: Water

Associated Lab Samples: 4019217001, 4019217002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1	1.0	06/27/09 15:00	

QUALITY CONTROL DATA

Project: PERRYVILLE, IL

Pace Project No.: 4019217

QC Batch: MSV/4904

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Oxygenates

Associated Lab Samples: 4019217001, 4019217002, 4019217003

METHOD BLANK: 177024

Matrix: Water

Associated Lab Samples: 4019217001, 4019217002, 4019217003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/L	ND	200	06/27/09 07:08	
4-Bromofluorobenzene (S)	%	98	70-130	06/27/09 07:08	
Dibromofluoromethane (S)	%	94	70-130	06/27/09 07:08	
Toluene-d8 (S)	%	102	70-130	06/27/09 07:08	

LABORATORY CONTROL SAMPLE & LCSD: 177025

177026

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%				100	99	70-130			
Dibromofluoromethane (S)	%				92	94	70-130			
Toluene-d8 (S)	%				102	101	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 177027

177028

Parameter	Units	4019217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						97	100	70-130			
Dibromofluoromethane (S)	%						93	94	70-130			
Toluene-d8 (S)	%						102	101	70-130			

QUALIFIERS

Project: PERRYVILLE, IL

Pace Project No.: 4019217

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCSV/2929

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

C3 Relative percent difference between results from each column was greater than 40%. The higher of the two results was reported.

H3 Sample was received outside the recognized method holding time.

M0 Matrix spike recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PERRYVILLE, IL

Pace Project No.: 4019217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4019217001	FWS 1 AND 2	EPA 8260	MSV/4849		
4019217002	FWS 3 AND 4	EPA 8260	MSV/4849		
4019217003	TRIP BLANK	EPA 8260	MSV/4849		
4019217001	FWS 1 AND 2	EPA 350.1	WETA/4162		
4019217002	FWS 3 AND 4	EPA 350.1	WETA/4162		
4019217001	FWS 1 AND 2	EPA 353.2	WETA/4163		
4019217002	FWS 3 AND 4	EPA 353.2	WETA/4163		
4019217001	FWS 1 AND 2	EPA 3510	OEXT/4640	EPA 8081	GCSV/2929
4019217002	FWS 3 AND 4	EPA 3510	OEXT/4640	EPA 8081	GCSV/2929
4019217001	FWS 1 AND 2	SM 9222D	MBIO/1404	SM 9222D	MBIO/1405
4019217002	FWS 3 AND 4	SM 9222D	MBIO/1404	SM 9222D	MBIO/1405
4019217001	FWS 1 AND 2	EPA 8260	MSV/4904		
4019217002	FWS 3 AND 4	EPA 8260	MSV/4904		
4019217003	TRIP BLANK	EPA 8260	MSV/4904		