

APPENDIX G – EQUIPMENT RINSATE LABORATORY REPORT

November 03, 2014

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60180682

Dear Trevor Gustafson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60180682

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60180682001	TB10172014C	Water	10/17/14 15:00	10/18/14 09:40
60180682002	RINSATE	Water	10/17/14 16:20	10/18/14 09:40

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA

Pace Project No.: 60180682

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60180682001	TB10172014C	EPA 5030B/8260	PRG	78
		EPA 8260/OA1	EAK	5
60180682002	RINSATE	OA2	JDE	9
		EPA 6010	JGP	7
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	EAK	78
		EPA 8260/OA1	EAK	5
SM 4500-H+B	ESM	1		

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Date: November 03, 2014

A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: OA2

Description: OA2 GCS

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for OA2. 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 OA2 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, where applicable, 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: OEXT/46775

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

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 6010

Description: 6010 MET ICP

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for EPA 6010. 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 3010 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, where applicable, 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.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 7470

Description: 7470 Mercury

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for EPA 7470. 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 7470 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, where applicable, 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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for EPA 8270. 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.

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, where applicable, 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: OEXT/46776

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 8270C by SIM

Description: 8270 MSSV PAH by SIM

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for EPA 8270C by SIM. 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 3510C 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, where applicable, 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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 5030B/8260

Description: 8260 MSV

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

2 samples were analyzed for EPA 5030B/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, where applicable, with any exceptions noted below.

Laboratory Control Spike:

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

QC Batch: MSV/65468

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1471071)
 - 1,3-Dichloropropane
 - 2-Chlorotoluene
 - 4-Chlorotoluene
 - Bromobenzene

Matrix Spikes:

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

QC Batch: MSV/65238

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

QC Batch: MSV/65468

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

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: EPA 8260/OA1

Description: 8260/OA1 UST, Water

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

2 samples were analyzed for EPA 8260/OA1. 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, where applicable, 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: MSV/65281

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Burns and McDonnell_BP

Date: November 03, 2014

General Information:

1 sample was analyzed for SM 4500-H+B. 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.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.

- RINSATE (Lab ID: 60180682002)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Sample: TB10172014C	Lab ID: 60180682001	Collected: 10/17/14 15:00	Received: 10/18/14 09:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		10/21/14 22:20	67-64-1	
Benzene	ND ug/L		1.0	1		10/21/14 22:20	71-43-2	
Bromobenzene	ND ug/L		1.0	1		10/21/14 22:20	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		10/21/14 22:20	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		10/21/14 22:20	75-27-4	
Bromoform	ND ug/L		1.0	1		10/21/14 22:20	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/21/14 22:20	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/21/14 22:20	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		10/21/14 22:20	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		10/21/14 22:20	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		10/21/14 22:20	98-06-6	
tert-Butyl Alcohol	ND ug/L		10.0	1		10/21/14 22:20	75-65-0	
Carbon disulfide	ND ug/L		5.0	1		10/21/14 22:20	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		10/21/14 22:20	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	108-90-7	
Chloroethane	ND ug/L		1.0	1		10/21/14 22:20	75-00-3	
Chloroform	ND ug/L		1.0	1		10/21/14 22:20	67-66-3	
Chloromethane	ND ug/L		1.0	1		10/21/14 22:20	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		10/21/14 22:20	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		10/21/14 22:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		10/21/14 22:20	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		10/21/14 22:20	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		10/21/14 22:20	106-93-4	
Dibromomethane	ND ug/L		1.0	1		10/21/14 22:20	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		10/21/14 22:20	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		10/21/14 22:20	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		10/21/14 22:20	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		10/21/14 22:20	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		10/21/14 22:20	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		10/21/14 22:20	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		10/21/14 22:20	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		10/21/14 22:20	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		10/21/14 22:20	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		10/21/14 22:20	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		10/21/14 22:20	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		10/21/14 22:20	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		10/21/14 22:20	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		10/21/14 22:20	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		10/21/14 22:20	87-68-3	
2-Hexanone	ND ug/L		10.0	1		10/21/14 22:20	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		10/21/14 22:20	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		10/21/14 22:20	99-87-6	
Methylene chloride	ND ug/L		1.0	1		10/21/14 22:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/21/14 22:20	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Sample Project No.: 60180682

Sample: TB10172014C	Lab ID: 60180682001	Collected: 10/17/14 15:00	Received: 10/18/14 09:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/21/14 22:20	1634-04-4	
Naphthalene	ND ug/L		10.0	1		10/21/14 22:20	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		10/21/14 22:20	103-65-1	
Styrene	ND ug/L		1.0	1		10/21/14 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		10/21/14 22:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		10/21/14 22:20	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		10/21/14 22:20	127-18-4	
Toluene	ND ug/L		1.0	1		10/21/14 22:20	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		10/21/14 22:20	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		10/21/14 22:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		10/21/14 22:20	79-00-5	
Trichloroethene	ND ug/L		1.0	1		10/21/14 22:20	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		10/21/14 22:20	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		10/21/14 22:20	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		10/21/14 22:20	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		10/21/14 22:20	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		10/21/14 22:20	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		10/21/14 22:20	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND ug/L		100	1		10/21/14 22:20	123-91-1	
Vinyl acetate	ND ug/L		10.0	1		10/21/14 22:20	108-05-4	
Acrylonitrile	ND ug/L		20.0	1		10/21/14 22:20	107-13-1	
trans-1,4-Dichloro-2-butene	ND ug/L		5.0	1		10/21/14 22:20	110-57-6	
tert-Amylmethyl ether	ND ug/L		1.0	1		10/21/14 22:20	994-05-8	
Diisopropyl ether	ND ug/L		1.0	1		10/21/14 22:20	108-20-3	
Ethyl-tert-butyl ether	ND ug/L		1.0	1		10/21/14 22:20	637-92-3	
Diethyl ether (Ethyl ether)	ND ug/L		1.0	1		10/21/14 22:20	60-29-7	
Surrogates								
4-Bromofluorobenzene (S)	92 %		80-120	1		10/21/14 22:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		80-120	1		10/21/14 22:20	17060-07-0	
Toluene-d8 (S)	101 %		80-120	1		10/21/14 22:20	2037-26-5	
Preservation pH	1.0		0.10	1		10/21/14 22:20		
8260/OA1 UST, Water		Analytical Method: EPA 8260/OA1						
Gasoline Range Organics	ND mg/L		0.50	1		10/23/14 03:21		
Surrogates								
Toluene-d8 (S)	94 %		80-120	1		10/23/14 03:21	2037-26-5	
4-Bromofluorobenzene (S)	95 %		80-120	1		10/23/14 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		80-120	1		10/23/14 03:21	17060-07-0	
Preservation pH	1.0		0.10	1		10/23/14 03:21		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Sample: RINSATE		Lab ID: 60180682002	Collected: 10/17/14 16:20	Received: 10/18/14 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS		Analytical Method: OA2 Preparation Method: OA2						
Diesel Fuel	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	68334-30-5	
Fuel Oil	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	68553-00-4	
Jet Fuel	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	94114-58-6	
Kerosene	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	8008-20-6	
Mineral Spirits	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	8030-30-6	
Motor Oil	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54	64742-65-0	
TEH as Diesel No.2	ND mg/L		0.39	1	10/22/14 00:00	10/23/14 15:54		
Surrogates								
p-Terphenyl (S)	81 %		29-122	1	10/22/14 00:00	10/23/14 15:54	92-94-4	
n-Tetracosane (S)	80 %		20-120	1	10/22/14 00:00	10/23/14 15:54	646-31-1	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic	ND ug/L		10.0	1	10/29/14 09:30	10/30/14 09:38	7440-38-2	
Barium	ND ug/L		10.0	1	10/29/14 09:30	10/30/14 09:38	7440-39-3	
Cadmium	ND ug/L		5.0	1	10/29/14 09:30	10/30/14 09:38	7440-43-9	
Chromium	ND ug/L		5.0	1	10/29/14 09:30	10/30/14 09:38	7440-47-3	
Lead	ND ug/L		5.0	1	10/29/14 09:30	10/30/14 09:38	7439-92-1	
Selenium	ND ug/L		15.0	1	10/29/14 09:30	10/30/14 09:38	7782-49-2	
Silver	ND ug/L		7.0	1	10/29/14 09:30	10/30/14 09:38	7440-22-4	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND ug/L		0.20	1	10/25/14 10:50	10/25/14 16:35	7439-97-6	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
1,2-Dichlorobenzene	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	106-46-7	
Diethylphthalate	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	84-66-2	
2,4-Dimethylphenol	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	105-67-9	
Dimethylphthalate	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	131-11-3	
Di-n-butylphthalate	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	84-74-2	
2,4-Dinitrophenol	ND ug/L		50.0	1	10/22/14 00:00	10/23/14 12:58	51-28-5	
bis(2-Ethylhexyl)phthalate	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	117-81-7	
2-Methylphenol(o-Cresol)	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58		
4-Nitrophenol	ND ug/L		50.0	1	10/22/14 00:00	10/23/14 12:58	100-02-7	
Phenol	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	108-95-2	
Pyridine	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	110-86-1	
Quinoline	ND ug/L		10.0	1	10/22/14 00:00	10/23/14 12:58	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	93 %		10-135	1	10/22/14 00:00	10/23/14 12:58	4165-60-0	
2-Fluorobiphenyl (S)	89 %		19-124	1	10/22/14 00:00	10/23/14 12:58	321-60-8	
Terphenyl-d14 (S)	89 %		24-131	1	10/22/14 00:00	10/23/14 12:58	1718-51-0	
Phenol-d6 (S)	21 %		10-120	1	10/22/14 00:00	10/23/14 12:58	13127-88-3	
2-Fluorophenol (S)	31 %		13-120	1	10/22/14 00:00	10/23/14 12:58	367-12-4	
2,4,6-Tribromophenol (S)	70 %		29-121	1	10/22/14 00:00	10/23/14 12:58	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Sample: RINSATE	Lab ID: 60180682002	Collected: 10/17/14 16:20	Received: 10/18/14 09:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C						
Acenaphthene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	83-32-9	
Acenaphthylene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	208-96-8	
Anthracene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	120-12-7	
Benzo(a)anthracene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	56-55-3	
Benzo(a)pyrene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	207-08-9	
Chrysene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	53-70-3	
Fluoranthene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	206-44-0	
Fluorene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	193-39-5	
1-Methylnaphthalene	ND ug/L		0.62	1	10/22/14 00:00	10/28/14 14:48	90-12-0	
2-Methylnaphthalene	ND ug/L		0.62	1	10/22/14 00:00	10/28/14 14:48	91-57-6	
Naphthalene	ND ug/L		0.62	1	10/22/14 00:00	10/28/14 14:48	91-20-3	
Phenanthrene	ND ug/L		0.62	1	10/22/14 00:00	10/28/14 14:48	85-01-8	
Pyrene	ND ug/L		0.12	1	10/22/14 00:00	10/28/14 14:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	102 %		36-120	1	10/22/14 00:00	10/28/14 14:48	321-60-8	
Terphenyl-d14 (S)	104 %		29-134	1	10/22/14 00:00	10/28/14 14:48	1718-51-0	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		10/23/14 03:35	67-64-1	
Benzene	ND ug/L		1.0	1		10/23/14 03:35	71-43-2	
Bromobenzene	ND ug/L		1.0	1		10/23/14 03:35	108-86-1	L3
Bromochloromethane	ND ug/L		1.0	1		10/23/14 03:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		10/23/14 03:35	75-27-4	
Bromoform	ND ug/L		1.0	1		10/23/14 03:35	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/23/14 03:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/23/14 03:35	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		10/23/14 03:35	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		10/23/14 03:35	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		10/23/14 03:35	98-06-6	
tert-Butyl Alcohol	ND ug/L		10.0	1		10/23/14 03:35	75-65-0	
Carbon disulfide	ND ug/L		5.0	1		10/23/14 03:35	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		10/23/14 03:35	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	108-90-7	
Chloroethane	ND ug/L		1.0	1		10/23/14 03:35	75-00-3	
Chloroform	ND ug/L		1.0	1		10/23/14 03:35	67-66-3	
Chloromethane	ND ug/L		1.0	1		10/23/14 03:35	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		10/23/14 03:35	95-49-8	L3
4-Chlorotoluene	ND ug/L		1.0	1		10/23/14 03:35	106-43-4	L3
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		10/23/14 03:35	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		10/23/14 03:35	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		10/23/14 03:35	106-93-4	
Dibromomethane	ND ug/L		1.0	1		10/23/14 03:35	74-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Sample: RINSATE		Lab ID: 60180682002	Collected: 10/17/14 16:20	Received: 10/18/14 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,2-Dichlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		10/23/14 03:35	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		10/23/14 03:35	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		10/23/14 03:35	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		10/23/14 03:35	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		10/23/14 03:35	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		10/23/14 03:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		10/23/14 03:35	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		10/23/14 03:35	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		10/23/14 03:35	142-28-9	L3
2,2-Dichloropropane	ND ug/L		1.0	1		10/23/14 03:35	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		10/23/14 03:35	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		10/23/14 03:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		10/23/14 03:35	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		10/23/14 03:35	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		10/23/14 03:35	87-68-3	
2-Hexanone	ND ug/L		10.0	1		10/23/14 03:35	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		10/23/14 03:35	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		10/23/14 03:35	99-87-6	
Methylene chloride	ND ug/L		1.0	1		10/23/14 03:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/23/14 03:35	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/23/14 03:35	1634-04-4	
Naphthalene	ND ug/L		10.0	1		10/23/14 03:35	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		10/23/14 03:35	103-65-1	
Styrene	ND ug/L		1.0	1		10/23/14 03:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		10/23/14 03:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		10/23/14 03:35	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		10/23/14 03:35	127-18-4	
Toluene	ND ug/L		1.0	1		10/23/14 03:35	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		10/23/14 03:35	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		10/23/14 03:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		10/23/14 03:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		10/23/14 03:35	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		10/23/14 03:35	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		10/23/14 03:35	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		10/23/14 03:35	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		10/23/14 03:35	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		10/23/14 03:35	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		10/23/14 03:35	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND ug/L		100	1		10/23/14 03:35	123-91-1	
Vinyl acetate	ND ug/L		10.0	1		10/23/14 03:35	108-05-4	
Acrylonitrile	ND ug/L		20.0	1		10/23/14 03:35	107-13-1	
trans-1,4-Dichloro-2-butene	ND ug/L		5.0	1		10/23/14 03:35	110-57-6	
tert-Amylmethyl ether	ND ug/L		1.0	1		10/23/14 03:35	994-05-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA

Pace Project No.: 60180682

Sample: RINSATE		Lab ID: 60180682002	Collected: 10/17/14 16:20	Received: 10/18/14 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Diisopropyl ether	ND ug/L		1.0	1		10/23/14 03:35	108-20-3	
Ethyl-tert-butyl ether	ND ug/L		1.0	1		10/23/14 03:35	637-92-3	
Diethyl ether (Ethyl ether)	ND ug/L		1.0	1		10/23/14 03:35	60-29-7	
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		10/23/14 03:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		80-120	1		10/23/14 03:35	17060-07-0	
Toluene-d8 (S)	94 %		80-120	1		10/23/14 03:35	2037-26-5	
Preservation pH	1.0		0.10	1		10/23/14 03:35		
8260/OA1 UST, Water		Analytical Method: EPA 8260/OA1						
Gasoline Range Organics	ND mg/L		0.50	1		10/23/14 03:35		
Surrogates								
Toluene-d8 (S)	94 %		80-120	1		10/23/14 03:35	2037-26-5	
4-Bromofluorobenzene (S)	94 %		80-120	1		10/23/14 03:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		80-120	1		10/23/14 03:35	17060-07-0	
Preservation pH	1.0		0.10	1		10/23/14 03:35		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	6.9 Std. Units		0.10	1		10/28/14 14:15		H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch:	MERP/8955	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	60180682002		

METHOD BLANK: 1466734 Matrix: Water
Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/25/14 16:30	

LABORATORY CONTROL SAMPLE: 1466735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1466736 1466737

Parameter	Units	60180682002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.8	93	97	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: MPRP/29543 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Associated Lab Samples: 60180682002

METHOD BLANK: 1469226 Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	10/30/14 09:31	
Barium	ug/L	ND	10.0	10/30/14 09:31	
Cadmium	ug/L	ND	5.0	10/30/14 09:31	
Chromium	ug/L	ND	5.0	10/30/14 09:31	
Lead	ug/L	ND	5.0	10/30/14 09:31	
Selenium	ug/L	ND	15.0	10/30/14 09:31	
Silver	ug/L	ND	7.0	10/30/14 09:31	

LABORATORY CONTROL SAMPLE: 1469227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	965	96	80-120	
Barium	ug/L	1000	1000	100	80-120	
Cadmium	ug/L	1000	998	100	80-120	
Chromium	ug/L	1000	993	99	80-120	
Lead	ug/L	1000	1010	101	80-120	
Selenium	ug/L	1000	977	98	80-120	
Silver	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1469228 1469229

Parameter	Units	60180682002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Arsenic	ug/L	ND	1000	1000	942	939	94	94	75-125	0	20	
Barium	ug/L	ND	1000	1000	979	977	98	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	971	970	97	97	75-125	0	20	
Chromium	ug/L	ND	1000	1000	964	962	96	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	984	989	98	99	75-125	1	20	
Selenium	ug/L	ND	1000	1000	949	948	95	95	75-125	0	20	
Silver	ug/L	ND	500	500	476	476	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: MSV/65238

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60180682001

METHOD BLANK: 1464397

Matrix: Water

Associated Lab Samples: 60180682001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,1-Dichloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,1-Dichloroethene	ug/L	ND	1.0	10/21/14 22:05	
1,1-Dichloropropene	ug/L	ND	1.0	10/21/14 22:05	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/21/14 22:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/21/14 22:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/21/14 22:05	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/21/14 22:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
1,2-Dichloroethane	ug/L	ND	1.0	10/21/14 22:05	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/21/14 22:05	
1,2-Dichloropropane	ug/L	ND	1.0	10/21/14 22:05	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/21/14 22:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
1,3-Dichloropropane	ug/L	ND	1.0	10/21/14 22:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	10/21/14 22:05	
2,2-Dichloropropane	ug/L	ND	1.0	10/21/14 22:05	
2-Butanone (MEK)	ug/L	ND	10.0	10/21/14 22:05	
2-Chlorotoluene	ug/L	ND	1.0	10/21/14 22:05	
2-Hexanone	ug/L	ND	10.0	10/21/14 22:05	
4-Chlorotoluene	ug/L	ND	1.0	10/21/14 22:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/21/14 22:05	
Acetone	ug/L	ND	10.0	10/21/14 22:05	
Acrylonitrile	ug/L	ND	20.0	10/21/14 22:05	
Benzene	ug/L	ND	1.0	10/21/14 22:05	
Bromobenzene	ug/L	ND	1.0	10/21/14 22:05	
Bromochloromethane	ug/L	ND	1.0	10/21/14 22:05	
Bromodichloromethane	ug/L	ND	1.0	10/21/14 22:05	
Bromoform	ug/L	ND	1.0	10/21/14 22:05	
Bromomethane	ug/L	ND	5.0	10/21/14 22:05	
Carbon disulfide	ug/L	ND	5.0	10/21/14 22:05	
Carbon tetrachloride	ug/L	ND	1.0	10/21/14 22:05	
Chlorobenzene	ug/L	ND	1.0	10/21/14 22:05	
Chloroethane	ug/L	ND	1.0	10/21/14 22:05	
Chloroform	ug/L	ND	1.0	10/21/14 22:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Peace Project No.: 60180682

METHOD BLANK: 1464397

Matrix: Water

Associated Lab Samples: 60180682001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	10/21/14 22:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/21/14 22:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/21/14 22:05	
Dibromochloromethane	ug/L	ND	1.0	10/21/14 22:05	
Dibromomethane	ug/L	ND	1.0	10/21/14 22:05	
Dichlorodifluoromethane	ug/L	ND	1.0	10/21/14 22:05	
Diethyl ether (Ethyl ether)	ug/L	ND	1.0	10/21/14 22:05	
Diisopropyl ether	ug/L	ND	1.0	10/21/14 22:05	
Ethyl-tert-butyl ether	ug/L	ND	1.0	10/21/14 22:05	
Ethylbenzene	ug/L	ND	1.0	10/21/14 22:05	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/21/14 22:05	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/21/14 22:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/21/14 22:05	
Methylene chloride	ug/L	ND	1.0	10/21/14 22:05	
n-Butylbenzene	ug/L	ND	1.0	10/21/14 22:05	
n-Propylbenzene	ug/L	ND	1.0	10/21/14 22:05	
Naphthalene	ug/L	ND	10.0	10/21/14 22:05	
p-Isopropyltoluene	ug/L	ND	1.0	10/21/14 22:05	
sec-Butylbenzene	ug/L	ND	1.0	10/21/14 22:05	
Styrene	ug/L	ND	1.0	10/21/14 22:05	
tert-Amylmethyl ether	ug/L	ND	1.0	10/21/14 22:05	
tert-Butyl Alcohol	ug/L	ND	10.0	10/21/14 22:05	
tert-Butylbenzene	ug/L	ND	1.0	10/21/14 22:05	
Tetrachloroethene	ug/L	ND	1.0	10/21/14 22:05	
Toluene	ug/L	ND	1.0	10/21/14 22:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/21/14 22:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/21/14 22:05	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	10/21/14 22:05	
Trichloroethene	ug/L	ND	1.0	10/21/14 22:05	
Trichlorofluoromethane	ug/L	ND	1.0	10/21/14 22:05	
Vinyl acetate	ug/L	ND	10.0	10/21/14 22:05	
Vinyl chloride	ug/L	ND	1.0	10/21/14 22:05	
Xylene (Total)	ug/L	ND	3.0	10/21/14 22:05	
1,2-Dichloroethane-d4 (S)	%	102	80-120	10/21/14 22:05	
4-Bromofluorobenzene (S)	%	93	80-120	10/21/14 22:05	
Toluene-d8 (S)	%	103	80-120	10/21/14 22:05	

LABORATORY CONTROL SAMPLE: 1464398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.3	107	80-124	
1,1,1-Trichloroethane	ug/L	20	20.4	102	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	16.7	83	73-124	
1,1,2-Trichloroethane	ug/L	20	20.3	101	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1464398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	20	20.2	101	77-120	
1,1-Dichloroethene	ug/L	20	19.1	95	78-126	
1,1-Dichloropropene	ug/L	20	18.4	92	80-120	
1,2,3-Trichlorobenzene	ug/L	20	18.8	94	75-130	
1,2,3-Trichloropropane	ug/L	20	18.0	90	76-127	
1,2,4-Trichlorobenzene	ug/L	20	17.9	89	79-124	
1,2,4-Trimethylbenzene	ug/L	20	18.1	90	80-122	
1,2-Dibromo-3-chloropropane	ug/L	20	17.6	88	68-131	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	106	80-127	
1,2-Dichlorobenzene	ug/L	20	18.8	94	80-122	
1,2-Dichloroethane	ug/L	20	19.7	99	77-123	
1,2-Dichloroethene (Total)	ug/L	40	39.7	99	80-120	
1,2-Dichloropropane	ug/L	20	19.1	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	17.7	89	80-121	
1,3-Dichlorobenzene	ug/L	20	18.5	92	80-120	
1,3-Dichloropropane	ug/L	20	20.1	100	80-120	
1,4-Dichlorobenzene	ug/L	20	18.8	94	80-120	
1,4-Dioxane (p-Dioxane)	ug/L	100	113	113	44-160	
2,2-Dichloropropane	ug/L	20	23.2	116	50-137	
2-Butanone (MEK)	ug/L	100	94.0	94	52-145	
2-Chlorotoluene	ug/L	20	17.6	88	80-120	
2-Hexanone	ug/L	100	94.5	95	57-139	
4-Chlorotoluene	ug/L	20	18.2	91	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.8	94	71-131	
Acetone	ug/L	100	91.1	91	32-155	
Acrylonitrile	ug/L	200	192	96	75-125	
Benzene	ug/L	20	20.1	101	80-120	
Bromobenzene	ug/L	20	18.8	94	80-120	
Bromochloromethane	ug/L	20	20.1	100	77-123	
Bromodichloromethane	ug/L	20	20.8	104	80-120	
Bromoform	ug/L	20	23.0	115	73-124	
Bromomethane	ug/L	20	18.6	93	31-144	
Carbon disulfide	ug/L	20	18.0	90	65-125	
Carbon tetrachloride	ug/L	20	21.0	105	78-128	
Chlorobenzene	ug/L	20	21.5	108	80-120	
Chloroethane	ug/L	20	17.7	88	55-137	
Chloroform	ug/L	20	20.4	102	79-120	
Chloromethane	ug/L	20	16.9	85	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.7	99	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	80-120	
Dibromochloromethane	ug/L	20	21.8	109	80-120	
Dibromomethane	ug/L	20	20.9	104	80-122	
Dichlorodifluoromethane	ug/L	20	16.9	85	23-120	
Diethyl ether (Ethyl ether)	ug/L	20	19.1	95	70-130	
Diisopropyl ether	ug/L	20	18.2	91	70-123	
Ethyl-tert-butyl ether	ug/L	20	18.6	93	73-120	
Ethylbenzene	ug/L	20	20.7	104	80-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1464398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	20	19.0	95	77-129	
Isopropylbenzene (Cumene)	ug/L	20	23.9	120	80-136	
Methyl-tert-butyl ether	ug/L	20	19.1	96	74-125	
Methylene chloride	ug/L	20	18.9	94	73-126	
n-Butylbenzene	ug/L	20	17.7	88	83-123	
n-Propylbenzene	ug/L	20	17.3	87	80-122	
Naphthalene	ug/L	20	18.9	95	73-130	
p-Isopropyltoluene	ug/L	20	18.4	92	80-124	
sec-Butylbenzene	ug/L	20	18.4	92	80-129	
Styrene	ug/L	20	22.0	110	80-120	
tert-Amylmethyl ether	ug/L	20	19.3	97	74-120	
tert-Butyl Alcohol	ug/L	100	101	101	50-139	
tert-Butylbenzene	ug/L	20	18.4	92	80-126	
Tetrachloroethene	ug/L	20	22.0	110	80-121	
Toluene	ug/L	20	20.6	103	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	79-121	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	80-127	
trans-1,4-Dichloro-2-butene	ug/L	20	16.1	81	59-133	
Trichloroethene	ug/L	20	20.0	100	80-120	
Trichlorofluoromethane	ug/L	20	20.2	101	67-120	
Vinyl acetate	ug/L	20	16.2	81	45-160	
Vinyl chloride	ug/L	20	18.6	93	59-120	
Xylene (Total)	ug/L	60	65.3	109	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			89	80-120	
Toluene-d8 (S)	%			104	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: MSV/65468

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60180682002

METHOD BLANK: 1471070

Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,1-Dichloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,1-Dichloroethene	ug/L	ND	1.0	10/22/14 23:49	
1,1-Dichloropropene	ug/L	ND	1.0	10/22/14 23:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/22/14 23:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/22/14 23:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/22/14 23:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/22/14 23:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
1,2-Dichloroethane	ug/L	ND	1.0	10/22/14 23:49	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/22/14 23:49	
1,2-Dichloropropane	ug/L	ND	1.0	10/22/14 23:49	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/22/14 23:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
1,3-Dichloropropane	ug/L	ND	1.0	10/22/14 23:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	10/22/14 23:49	
2,2-Dichloropropane	ug/L	ND	1.0	10/22/14 23:49	
2-Butanone (MEK)	ug/L	ND	10.0	10/22/14 23:49	
2-Chlorotoluene	ug/L	ND	1.0	10/22/14 23:49	
2-Hexanone	ug/L	ND	10.0	10/22/14 23:49	
4-Chlorotoluene	ug/L	ND	1.0	10/22/14 23:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/22/14 23:49	
Acetone	ug/L	ND	10.0	10/22/14 23:49	
Acrylonitrile	ug/L	ND	20.0	10/22/14 23:49	
Benzene	ug/L	ND	1.0	10/22/14 23:49	
Bromobenzene	ug/L	ND	1.0	10/22/14 23:49	
Bromochloromethane	ug/L	ND	1.0	10/22/14 23:49	
Bromodichloromethane	ug/L	ND	1.0	10/22/14 23:49	
Bromoform	ug/L	ND	1.0	10/22/14 23:49	
Bromomethane	ug/L	ND	5.0	10/22/14 23:49	
Carbon disulfide	ug/L	ND	5.0	10/22/14 23:49	
Carbon tetrachloride	ug/L	ND	1.0	10/22/14 23:49	
Chlorobenzene	ug/L	ND	1.0	10/22/14 23:49	
Chloroethane	ug/L	ND	1.0	10/22/14 23:49	
Chloroform	ug/L	ND	1.0	10/22/14 23:49	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Project No.: 60180682

METHOD BLANK: 1471070

Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	10/22/14 23:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/22/14 23:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/22/14 23:49	
Dibromochloromethane	ug/L	ND	1.0	10/22/14 23:49	
Dibromomethane	ug/L	ND	1.0	10/22/14 23:49	
Dichlorodifluoromethane	ug/L	ND	1.0	10/22/14 23:49	
Diethyl ether (Ethyl ether)	ug/L	ND	1.0	10/22/14 23:49	
Diisopropyl ether	ug/L	ND	1.0	10/22/14 23:49	
Ethyl-tert-butyl ether	ug/L	ND	1.0	10/22/14 23:49	
Ethylbenzene	ug/L	ND	1.0	10/22/14 23:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/22/14 23:49	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/22/14 23:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/22/14 23:49	
Methylene chloride	ug/L	ND	1.0	10/22/14 23:49	
n-Butylbenzene	ug/L	ND	1.0	10/22/14 23:49	
n-Propylbenzene	ug/L	ND	1.0	10/22/14 23:49	
Naphthalene	ug/L	ND	10.0	10/22/14 23:49	
p-Isopropyltoluene	ug/L	ND	1.0	10/22/14 23:49	
sec-Butylbenzene	ug/L	ND	1.0	10/22/14 23:49	
Styrene	ug/L	ND	1.0	10/22/14 23:49	
tert-Amylmethyl ether	ug/L	ND	1.0	10/22/14 23:49	
tert-Butyl Alcohol	ug/L	ND	10.0	10/22/14 23:49	
tert-Butylbenzene	ug/L	ND	1.0	10/22/14 23:49	
Tetrachloroethene	ug/L	ND	1.0	10/22/14 23:49	
Toluene	ug/L	ND	1.0	10/22/14 23:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/22/14 23:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/22/14 23:49	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	10/22/14 23:49	
Trichloroethene	ug/L	ND	1.0	10/22/14 23:49	
Trichlorofluoromethane	ug/L	ND	1.0	10/22/14 23:49	
Vinyl acetate	ug/L	ND	10.0	10/22/14 23:49	
Vinyl chloride	ug/L	ND	1.0	10/22/14 23:49	
Xylene (Total)	ug/L	ND	3.0	10/22/14 23:49	
1,2-Dichloroethane-d4 (S)	%	108	80-120	10/22/14 23:49	
4-Bromofluorobenzene (S)	%	95	80-120	10/22/14 23:49	
Toluene-d8 (S)	%	94	80-120	10/22/14 23:49	

LABORATORY CONTROL SAMPLE: 1471071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.9	115	80-124	
1,1,1-Trichloroethane	ug/L	20	22.4	112	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	73-124	
1,1,2-Trichloroethane	ug/L	20	24.0	120	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1471071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	20	18.6	93	77-120	
1,1-Dichloroethene	ug/L	20	20.3	101	78-126	
1,1-Dichloropropene	ug/L	20	22.0	110	80-120	
1,2,3-Trichlorobenzene	ug/L	20	23.1	116	75-130	
1,2,3-Trichloropropane	ug/L	20	25.2	126	76-127	
1,2,4-Trichlorobenzene	ug/L	20	22.6	113	79-124	
1,2,4-Trimethylbenzene	ug/L	20	22.0	110	80-122	
1,2-Dibromo-3-chloropropane	ug/L	20	22.6	113	68-131	
1,2-Dibromoethane (EDB)	ug/L	20	24.6	123	80-127	
1,2-Dichlorobenzene	ug/L	20	23.3	116	80-122	
1,2-Dichloroethane	ug/L	20	22.7	114	77-123	
1,2-Dichloroethene (Total)	ug/L	40	41.9	105	80-120	
1,2-Dichloropropane	ug/L	20	21.5	108	80-121	
1,3,5-Trimethylbenzene	ug/L	20	23.5	117	80-121	
1,3-Dichlorobenzene	ug/L	20	23.7	118	80-120	
1,3-Dichloropropane	ug/L	20	24.3	121	80-120	L0
1,4-Dichlorobenzene	ug/L	20	22.9	115	80-120	
1,4-Dioxane (p-Dioxane)	ug/L	100	87.6J	88	44-160	
2,2-Dichloropropane	ug/L	20	19.1	95	50-137	
2-Butanone (MEK)	ug/L	100	103	103	52-145	
2-Chlorotoluene	ug/L	20	24.8	124	80-120	L0
2-Hexanone	ug/L	100	112	112	57-139	
4-Chlorotoluene	ug/L	20	25.1	125	80-121	L0
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	71-131	
Acetone	ug/L	100	91.3	91	32-155	
Acrylonitrile	ug/L	200	181	90	75-125	
Benzene	ug/L	20	22.0	110	80-120	
Bromobenzene	ug/L	20	24.7	124	80-120	L0
Bromochloromethane	ug/L	20	22.4	112	77-123	
Bromodichloromethane	ug/L	20	22.7	114	80-120	
Bromoform	ug/L	20	22.3	112	73-124	
Bromomethane	ug/L	20	12.5	63	31-144	
Carbon disulfide	ug/L	20	19.6	98	65-125	
Carbon tetrachloride	ug/L	20	22.7	114	78-128	
Chlorobenzene	ug/L	20	22.5	113	80-120	
Chloroethane	ug/L	20	20.4	102	55-137	
Chloroform	ug/L	20	22.4	112	79-120	
Chloromethane	ug/L	20	18.1	91	22-138	
cis-1,2-Dichloroethene	ug/L	20	22.1	110	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	80-120	
Dibromochloromethane	ug/L	20	23.7	118	80-120	
Dibromomethane	ug/L	20	22.9	115	80-122	
Dichlorodifluoromethane	ug/L	20	19.6	98	23-120	
Diethyl ether (Ethyl ether)	ug/L	20	18.1	91	70-130	
Diisopropyl ether	ug/L	20	17.6	88	70-123	
Ethyl-tert-butyl ether	ug/L	20	20.7	103	73-120	
Ethylbenzene	ug/L	20	21.6	108	80-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1471071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	20	21.9	109	77-129	
Isopropylbenzene (Cumene)	ug/L	20	24.0	120	80-136	
Methyl-tert-butyl ether	ug/L	20	18.5	93	74-125	
Methylene chloride	ug/L	20	17.3	86	73-126	
n-Butylbenzene	ug/L	20	23.8	119	83-123	
n-Propylbenzene	ug/L	20	22.6	113	80-122	
Naphthalene	ug/L	20	24.0	120	73-130	
p-Isopropyltoluene	ug/L	20	22.8	114	80-124	
sec-Butylbenzene	ug/L	20	23.8	119	80-129	
Styrene	ug/L	20	23.5	117	80-120	
tert-Amylmethyl ether	ug/L	20	21.0	105	74-120	
tert-Butyl Alcohol	ug/L	100	92.3	92	50-139	
tert-Butylbenzene	ug/L	20	23.6	118	80-126	
Tetrachloroethene	ug/L	20	23.1	115	80-121	
Toluene	ug/L	20	19.9	100	80-122	
trans-1,2-Dichloroethene	ug/L	20	19.9	99	79-121	
trans-1,3-Dichloropropene	ug/L	20	24.0	120	80-127	
trans-1,4-Dichloro-2-butene	ug/L	20	23.7	119	59-133	
Trichloroethene	ug/L	20	21.8	109	80-120	
Trichlorofluoromethane	ug/L	20	19.6	98	67-120	
Vinyl acetate	ug/L	20	16.5	82	45-160	
Vinyl chloride	ug/L	20	15.5	77	59-120	
Xylene (Total)	ug/L	60	65.5	109	80-121	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			94	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: MSV/65281

Analysis Method: EPA 8260/OA1

QC Batch Method: EPA 8260/OA1

Analysis Description: 8260/OA1 UST-WATER

Associated Lab Samples: 60180682001, 60180682002

METHOD BLANK: 1465389

Matrix: Water

Associated Lab Samples: 60180682001, 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	10/22/14 23:49	
1,2-Dichloroethane-d4 (S)	%	108	80-120	10/22/14 23:49	
4-Bromofluorobenzene (S)	%	95	80-120	10/22/14 23:49	
Toluene-d8 (S)	%	94	80-120	10/22/14 23:49	

LABORATORY CONTROL SAMPLE: 1465390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.5	88	62-121	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			94	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: OEXT/46776

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 60180682002

METHOD BLANK: 1464855

Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	10/23/14 12:17	
1,3-Dichlorobenzene	ug/L	ND	10.0	10/23/14 12:17	
1,4-Dichlorobenzene	ug/L	ND	10.0	10/23/14 12:17	
2,4-Dimethylphenol	ug/L	ND	10.0	10/23/14 12:17	
2,4-Dinitrophenol	ug/L	ND	50.0	10/23/14 12:17	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/23/14 12:17	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/23/14 12:17	
4-Nitrophenol	ug/L	ND	50.0	10/23/14 12:17	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	10/23/14 12:17	
Di-n-butylphthalate	ug/L	ND	10.0	10/23/14 12:17	
Diethylphthalate	ug/L	ND	10.0	10/23/14 12:17	
Dimethylphthalate	ug/L	ND	10.0	10/23/14 12:17	
Phenol	ug/L	ND	10.0	10/23/14 12:17	
Pyridine	ug/L	ND	10.0	10/23/14 12:17	
Quinoline	ug/L	ND	10.0	10/23/14 12:17	
2,4,6-Tribromophenol (S)	%	58	29-121	10/23/14 12:17	
2-Fluorobiphenyl (S)	%	76	19-124	10/23/14 12:17	
2-Fluorophenol (S)	%	32	13-120	10/23/14 12:17	
Nitrobenzene-d5 (S)	%	77	10-135	10/23/14 12:17	
Phenol-d6 (S)	%	21	10-120	10/23/14 12:17	
Terphenyl-d14 (S)	%	75	24-131	10/23/14 12:17	

LABORATORY CONTROL SAMPLE: 1464856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	40.7	81	45-120	
1,3-Dichlorobenzene	ug/L	50	39.8	80	44-120	
1,4-Dichlorobenzene	ug/L	50	40.1	80	44-120	
2,4-Dimethylphenol	ug/L	50	41.8	84	35-120	
2,4-Dinitrophenol	ug/L	50	28.8J	58	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.1	64	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.6	59	34-120	
4-Nitrophenol	ug/L	50	15J	30	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	57.4	115	52-123	
Di-n-butylphthalate	ug/L	50	52.4	105	49-125	
Diethylphthalate	ug/L	50	51.4	103	53-120	
Dimethylphthalate	ug/L	50	50.4	101	52-120	
Phenol	ug/L	50	14.9	30	12-120	
Pyridine	ug/L	50	10.4	21	10-120	
Quinoline	ug/L	50	40.8	82	37-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1464856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			77	29-121	
2-Fluorobiphenyl (S)	%			97	19-124	
2-Fluorophenol (S)	%			40	13-120	
Nitrobenzene-d5 (S)	%			101	10-135	
Phenol-d6 (S)	%			26	10-120	
Terphenyl-d14 (S)	%			94	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: OEXT/46767

Analysis Method: EPA 8270C by SIM

QC Batch Method: EPA 3510C

Analysis Description: 8270 Water PAH by SIM MSSV

Associated Lab Samples: 60180682002

METHOD BLANK: 1464815

Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	10/28/14 12:03	
2-Methylnaphthalene	ug/L	ND	0.50	10/28/14 12:03	
Acenaphthene	ug/L	ND	0.10	10/28/14 12:03	
Acenaphthylene	ug/L	ND	0.10	10/28/14 12:03	
Anthracene	ug/L	ND	0.10	10/28/14 12:03	
Benzo(a)anthracene	ug/L	ND	0.10	10/28/14 12:03	
Benzo(a)pyrene	ug/L	ND	0.10	10/28/14 12:03	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/28/14 12:03	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/28/14 12:03	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/28/14 12:03	
Chrysene	ug/L	ND	0.10	10/28/14 12:03	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/28/14 12:03	
Fluoranthene	ug/L	ND	0.10	10/28/14 12:03	
Fluorene	ug/L	ND	0.10	10/28/14 12:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/28/14 12:03	
Naphthalene	ug/L	ND	0.50	10/28/14 12:03	
Phenanthrene	ug/L	ND	0.50	10/28/14 12:03	
Pyrene	ug/L	ND	0.10	10/28/14 12:03	
2-Fluorobiphenyl (S)	%	108	36-120	10/28/14 12:03	
Terphenyl-d14 (S)	%	121	29-134	10/28/14 12:03	

LABORATORY CONTROL SAMPLE: 1464816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	8.0	80	59-120	
2-Methylnaphthalene	ug/L	10	8.0	80	52-120	
Acenaphthene	ug/L	10	7.6	76	45-120	
Acenaphthylene	ug/L	10	7.5	75	42-120	
Anthracene	ug/L	10	7.6	76	39-120	
Benzo(a)anthracene	ug/L	10	7.7	77	40-125	
Benzo(a)pyrene	ug/L	10	8.5	85	39-122	
Benzo(b)fluoranthene	ug/L	10	8.1	81	33-134	
Benzo(g,h,i)perylene	ug/L	10	7.4	74	27-126	
Benzo(k)fluoranthene	ug/L	10	9.2	92	43-123	
Chrysene	ug/L	10	7.8	78	44-120	
Dibenz(a,h)anthracene	ug/L	10	7.4	74	21-129	
Fluoranthene	ug/L	10	7.8	78	45-126	
Fluorene	ug/L	10	7.7	77	44-120	
Indeno(1,2,3-cd)pyrene	ug/L	10	7.4	74	25-127	
Naphthalene	ug/L	10	7.6	76	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

LABORATORY CONTROL SAMPLE: 1464816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.5	75	43-120	
Pyrene	ug/L	10	8.5	85	39-120	
2-Fluorobiphenyl (S)	%			72	36-120	
Terphenyl-d14 (S)	%			72	29-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1464817 1464818

Parameter	Units	60180716005		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	ND	9.5	9.5	10.1	8.7	107	92	59-120	15	30		
2-Methylnaphthalene	ug/L	ND	9.5	9.5	10.2	8.7	107	91	52-120	16	30		
Acenaphthene	ug/L	ND	9.5	9.5	9.8	8.7	103	92	40-120	11	37		
Acenaphthylene	ug/L	ND	9.5	9.5	9.9	8.5	104	89	41-120	15	32		
Anthracene	ug/L	ND	9.5	9.5	9.9	8.6	104	91	33-121	13	26		
Benzo(a)anthracene	ug/L	ND	9.5	9.5	9.7	8.6	102	90	40-125	12	28		
Benzo(a)pyrene	ug/L	ND	9.5	9.5	10.3	9.2	108	96	43-122	11	29		
Benzo(b)fluoranthene	ug/L	ND	9.5	9.5	10.3	10.3	108	108	34-130	0	38		
Benzo(g,h,i)perylene	ug/L	ND	9.5	9.5	9.9	8.0	103	84	42-127	21	29		
Benzo(k)fluoranthene	ug/L	ND	9.5	9.5	10.4	8.6	109	91	49-120	19	27		
Chrysene	ug/L	ND	9.5	9.5	9.7	8.7	102	91	47-120	12	25		
Dibenz(a,h)anthracene	ug/L	ND	9.5	9.5	10	8.1	105	85	40-120	21	25		
Fluoranthene	ug/L	ND	9.5	9.5	10.5	8.8	110	93	45-125	17	31		
Fluorene	ug/L	ND	9.5	9.5	10.1	8.8	106	92	42-120	14	27		
Indeno(1,2,3-cd)pyrene	ug/L	ND	9.5	9.5	9.9	8.0	103	84	34-130	20	24		
Naphthalene	ug/L	ND	9.5	9.5	9.6	8.3	101	87	24-128	14	25		
Phenanthrene	ug/L	0.074J	9.5	9.5	9.6	8.4	100	88	38-120	13	29		
Pyrene	ug/L	ND	9.5	9.5	9.8	9.1	103	96	44-120	8	34		
2-Fluorobiphenyl (S)	%						96	82	36-120				
Terphenyl-d14 (S)	%						89	81	29-134				

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: OEXT/46775

Analysis Method: OA2

QC Batch Method: OA2

Analysis Description: OA2 GCS

Associated Lab Samples: 60180682002

METHOD BLANK: 1464849

Matrix: Water

Associated Lab Samples: 60180682002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	10/23/14 14:15	
Fuel Oil	mg/L	ND	0.40	10/23/14 14:15	
Jet Fuel	mg/L	ND	0.40	10/23/14 14:15	
Kerosene	mg/L	ND	0.40	10/23/14 14:15	
Mineral Spirits	mg/L	ND	0.40	10/23/14 14:15	
Motor Oil	mg/L	ND	0.40	10/23/14 14:15	
TEH as Diesel No.2	mg/L	ND	0.40	10/23/14 14:15	
n-Tetracosane (S)	%	72	20-120	10/23/14 14:15	
p-Terphenyl (S)	%	85	29-122	10/23/14 14:15	

LABORATORY CONTROL SAMPLE: 1464850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	8.3	67	60-122	
n-Tetracosane (S)	%			70	20-120	
p-Terphenyl (S)	%			80	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA

Pace Project No.: 60180682

QC Batch: WET/51210 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60180682002

SAMPLE DUPLICATE: 1468990

Parameter	Units	60180436001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

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QUALIFIERS

Project: KDHE NEODESHA

Pace Project No.: 60180682

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.

PQL - Practical Quantitation Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/65238

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

Batch: OEXT/46775

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

Batch: OEXT/46776

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

Batch: MSV/65281

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

Batch: MSV/65468

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

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA

Pace Project No.: 60180682

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60180682002	RINSATE	OA2	OEXT/46775	OA2	GCSV/17835
60180682002	RINSATE	EPA 3010	MPRP/29543	EPA 6010	ICP/22175
60180682002	RINSATE	EPA 7470	MERP/8955	EPA 7470	MERC/8915
60180682002	RINSATE	EPA 3510	OEXT/46776	EPA 8270	MSSV/15046
60180682002	RINSATE	EPA 3510C	OEXT/46767	EPA 8270C by SIM	MSSV/15074
60180682001	TB10172014C	EPA 5030B/8260	MSV/65238		
60180682002	RINSATE	EPA 5030B/8260	MSV/65468		
60180682001	TB10172014C	EPA 8260/OA1	MSV/65281		
60180682002	RINSATE	EPA 8260/OA1	MSV/65281		
60180682002	RINSATE	SM 4500-H+B	WET/51210		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

JO#: 60180682



60180682

Client Name: Bim

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2PIC

Thermometer Used: T-239 T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 3.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 10/18/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr): <u>pu10118</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>092914-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State <u>KS</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAF For NCB Date: 10/18/14



021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

1 of 1

Burns & McDonnell Engineering
 9400 Ward Parkway
 Kansas City, Missouri 64114
 Phone: (816) 333-9400 Fax: (816) 822-3494
 Attention: *Trevor Gustafson*

Laboratory: *PACE*

Address:

City/State/Zip: *Lenexa, KS*

Telephone:

Document Control No.:

Lab. Reference No. or Episode No.:

Project Number: *80435*

Client Name: *KDHE Needles/KC*

Sample Type

Matrix

Gas
 Solid
 Liquid

Sample Collected

Sample Depth (in feet)

Sample Event

Group or SWMU Name
 Sample Point
 Sample Designator

Round

Year

Date

Time

Remarks

Number of Containers

Analysis

PH, RCRAB

PAH, GA2

SUCCS 0270

8260 VCS / GR0

2 X

10 X X X

2D69H

61

36094

ZAHM 4A64U 1B P3/V 02

200

Sampler (signature):

Sample (signature): *CHRIS HOG-LUND*

Relinquished By (signature): *Ch. Ashnd*

Date/Time: *10/18 940M*

Received By (signature): *Ch. Ashnd*

Date/Time: *10/18/14 0840*

Ice Present in Container: Yes No

Temperature Upon Receipt: *3.2*

Relinquished By (signature):

Date/Time:

Received By (signature):

Date/Time:

Laboratory Comments:

Special Instructions:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_18-OCT-2014 09:40 Client SDG: 6018068
Lab Smp Id: 60180682002 Client Smp ID: RINSATE
Operator : EAK Sample Date: 17-OCT-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:18-OCT-2014 09:40
Analysis Type: VOA Level: LOW
Inj Date: 23-OCT-2014 03:35

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====