REM 72
Document 2527539

January 1, 2017 Reference No. 074957

U.S. Environmental Protection Agency – Region 8
Attn: UIC Class V Enforcement Program
Mail Code: 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

To Whom It May Concern:

Re: Underground Injection Control (UIC) Compliance Report
July - December 2016
UIC Permit Number CO51213-08174
ConocoPhillips Company
Former Weld County Gas Plant (COGCC Remediation Site #73)
CR 20 and CR 69
Weld County, Colorado

Per the conditions set forth in the above-referenced permit, GHD submits the attached Compliance Report on behalf of ConocoPhillips Company.

The groundwater treatment system located at this site has not been operational since August 2016. GHD is currently working to repair that portion of the system. The volume of water treated between June 20, 2016 and December 2016 is 304,361 gallons. The system was run, in-hand, on December 21, 2016 to collect the permit required analytical sample (attached).

If you have any questions regarding this submittal, please contact Christina Ruby at (720) 974-0969.

Sincerely,

GHD

David M. Bonga, EIT
Project Engineer

Christina Ruby
Senior Project Manager

CR/ac/9

Encl. Attachment A – Compliance Report
Attachment B – Injection Analytical Data

cc: Mr. Brady Crouch – ConocoPhillips,
Mr. Robert H. Chesson – Colorado Oil and Gas Conservation Commission

GHD
14998 West 6th Avenue Suite 800 Golden Colorado 80401 USA
T 720 974 0935 **F** 720 974 0936 **W** www.ghd.com

Attachment A
Compliance Report

Compliance Report
UIC Permit Number CO51213-08174
July – December 2016

The groundwater treatment system located at the Weld County Gas Plant was operated between June 20, 2016 and December 21, 2016 ; a total of 304,361 gallons was treated and injected for the time period between June 20, 2016 and December 21, 2016. Because injection fluid was generated during this period, the sampling activities outlined in Part II, E.1., of the above-referenced permit, were conducted, and the sampling data is presented for certification as required in Part II, E.2.

In accordance with the above-referenced permit, the discharge sample for this reporting period was collected on December 21, 2016. The data is attached with this report. The next reporting period will be January – June 2017.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments. Additionally, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Joseph B. Crouch
Name

Program Manager - RM&R
ConocoPhillips
Title, Company

Joseph B. Crouch
Signature

12/31/16
Date

Attachment B
Injection Analytical Data

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

December 29, 2016

Christina Ruby
GHD Services Inc.
14998 W. 6th Ave.
Golden, CO 80401

RE: Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Dear Christina Ruby:
Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Richard Mannz
richard.mannz@pacelabs.com
PM Lab Management

Enclosures

cc: David Bonga, GHD
Angela Bown, GHD Services Inc.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60234808001	**GW-74957-122116-EV-001**	Water	12/21/16 12:45	12/21/16 14:20
60234808002	**Trip Blank-122116**	Water	12/21/16 12:45	12/21/16 14:20

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SAMPLE ANALYTE COUNT

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60234808001	**GW-74957-122116-EV-001**	EPA 504.1	SMH	1	PASI-O
		EPA 524.2	BCH	69	PASI-O
60234808002	**Trip Blank-122116**	EPA 504.1	SMH	2	PASI-O
		EPA 524.2	BCH	69	PASI-O

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PROJECT NARRATIVE

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Method: **EPA 504.1**
Description: 504.1 GCS EDB and DBCP
Client: GHD Services Inc. COLORADO
Date: December 29, 2016

General Information:
2 samples were analyzed for EPA 504.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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 504.1 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.

Additional Comments:

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PROJECT NARRATIVE

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Method: **EPA 524.2**
Description: 524.2 MSV
Client: GHD Services Inc. COLORADO
Date: December 29, 2016

General Information:
2 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

Additional Comments:

Analyte Comments:

QC Batch: 340410

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 1826460)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane
- GW-74957-122116-EV-001 (Lab ID: 60234808001)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Method: **EPA 524.2**
Description: 524.2 MSV
Client: GHD Services Inc. COLORADO
Date: December 29, 2016

Analyte Comments:

QC Batch: 340410

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- GW-74957-122116-EV-001 (Lab ID: 60234808001)
  - 1,1,2-Trichlorotrifluoroethane
- LCS (Lab ID: 1826461)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane
- LCSD (Lab ID: 1826462)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane

QC Batch: 340728

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 1828763)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane
- LCS (Lab ID: 1828764)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane
- LCSD (Lab ID: 1828765)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane
- Trip Blank-122116 (Lab ID: 60234808002)
  - 1,2-Dibromoethane (EDB)
  - 1,2,3-Trimethylbenzene
  - 2-Butanone (MEK)
  - 1,3-Dichloropropene
  - 1,1,2-Trichlorotrifluoroethane

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Sample: GW-74957-122116-EV-001 **Lab ID: 60234808001** Collected: 12/21/16 12:45 Received: 12/21/16 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.0097	1	12/22/16 23:50	12/23/16 13:24	106-93-4	
524.2 MSV	Analytical Method: EPA 524.2							
Acetone	ND	ug/L	5.0	1		12/22/16 18:34	67-64-1	
Benzene	ND	ug/L	0.50	1		12/22/16 18:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/22/16 18:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/22/16 18:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/22/16 18:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/22/16 18:34	75-25-2	
Bromomethane	ND	ug/L	0.50	1		12/22/16 18:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/22/16 18:34	78-93-3	N2
n-Butylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/22/16 18:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	108-90-7	
Chloroethane	ND	ug/L	0.50	1		12/22/16 18:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/22/16 18:34	67-66-3	
Chloromethane	ND	ug/L	0.50	1		12/22/16 18:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/22/16 18:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/22/16 18:34	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		12/22/16 18:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/22/16 18:34	106-93-4	N2
Dibromomethane	ND	ug/L	0.50	1		12/22/16 18:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/22/16 18:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/22/16 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/22/16 18:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/22/16 18:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/22/16 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/22/16 18:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/22/16 18:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/22/16 18:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/22/16 18:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/22/16 18:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/22/16 18:34	10061-01-5	
1,3-Dichloropropene	ND	ug/L	0.50	1		12/22/16 18:34	10061-02-6	N2
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/22/16 18:34	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		12/22/16 18:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/22/16 18:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		12/22/16 18:34	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		12/22/16 18:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/22/16 18:34	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		12/22/16 18:34	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Sample: GW-74957-122116-EV-001 **Lab ID: 60234808001** Collected: 12/21/16 12:45 Received: 12/21/16 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
n-Propylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	103-65-1	
Styrene	ND	ug/L	0.50	1		12/22/16 18:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/22/16 18:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/22/16 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/22/16 18:34	127-18-4	
Toluene	ND	ug/L	0.50	1		12/22/16 18:34	108-88-3	
Total Trihalomethanes (Calc.)	ND	ug/L	1.0	1		12/22/16 18:34		
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		12/22/16 18:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/22/16 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/22/16 18:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/22/16 18:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		12/22/16 18:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/22/16 18:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.50	1		12/22/16 18:34	76-13-1	N2
1,2,3-Trimethylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	526-73-8	N2
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/22/16 18:34	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		12/22/16 18:34	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		12/22/16 18:34	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1		12/22/16 18:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/22/16 18:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	80	%	70-130	1		12/22/16 18:34	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/22/16 18:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/22/16 18:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

ANALYTICAL RESULTS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Sample: Trip Blank-122116 **Lab ID: 60234808002** Collected: 12/21/16 12:45 Received: 12/21/16 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromo-3-chloropropane	ND	ug/L	0.020	1	12/26/16 17:45	12/27/16 13:08	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	12/26/16 17:45	12/27/16 13:08	106-93-4	
524.2 MSV	Analytical Method: EPA 524.2							
Acetone	ND	ug/L	5.0	1		12/23/16 18:41	67-64-1	
Benzene	ND	ug/L	0.50	1		12/23/16 18:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/16 18:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/16 18:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/23/16 18:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/23/16 18:41	75-25-2	
Bromomethane	ND	ug/L	0.50	1		12/23/16 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/23/16 18:41	78-93-3	N2
n-Butylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/16 18:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	108-90-7	
Chloroethane	ND	ug/L	0.50	1		12/23/16 18:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/23/16 18:41	67-66-3	
Chloromethane	ND	ug/L	0.50	1		12/23/16 18:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/16 18:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/16 18:41	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		12/23/16 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/16 18:41	106-93-4	N2
Dibromomethane	ND	ug/L	0.50	1		12/23/16 18:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/16 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/16 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/16 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/16 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/16 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/16 18:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/16 18:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/16 18:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/23/16 18:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/16 18:41	10061-01-5	
1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/16 18:41	10061-02-6	N2
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/16 18:41	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.50	1		12/23/16 18:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/16 18:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	0.50	1		12/23/16 18:41	99-87-6	
Methylene Chloride	ND	ug/L	0.50	1		12/23/16 18:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/16 18:41	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

ANALYTICAL RESULTS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Sample: Trip Blank-122116 **Lab ID: 60234808002** Collected: 12/21/16 12:45 Received: 12/21/16 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
Naphthalene	ND	ug/L	0.50	1		12/23/16 18:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/16 18:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/16 18:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/16 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/16 18:41	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/16 18:41	108-88-3	
Total Trihalomethanes (Calc.)	ND	ug/L	1.0	1		12/23/16 18:41		
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		12/23/16 18:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/16 18:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/16 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		12/23/16 18:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/16 18:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.50	1		12/23/16 18:41	76-13-1	N2
1,2,3-Trimethylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	526-73-8	N2
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/16 18:41	108-67-8	
Vinyl chloride	ND	ug/L	0.50	1		12/23/16 18:41	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		12/23/16 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	0.50	1		12/23/16 18:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/16 18:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	79	%	70-130	1		12/23/16 18:41	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		12/23/16 18:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/23/16 18:41	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

QC Batch: 340410 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 60234808001

METHOD BLANK: 1826460 Matrix: Water
Associated Lab Samples: 60234808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	0.50	12/22/16 15:23	N2
1,1-Dichloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,1-Dichloroethene	ug/L	ND	0.50	12/22/16 15:23	
1,1-Dichloropropene	ug/L	ND	0.50	12/22/16 15:23	
1,2,3-Trichlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/22/16 15:23	
1,2,3-Trimethylbenzene	ug/L	ND	0.50	12/22/16 15:23	N2
1,2,4-Trichlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/22/16 15:23	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/22/16 15:23	N2
1,2-Dichlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
1,2-Dichloroethane	ug/L	ND	0.50	12/22/16 15:23	
1,2-Dichloropropane	ug/L	ND	0.50	12/22/16 15:23	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/22/16 15:23	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
1,3-Dichloropropane	ug/L	ND	0.50	12/22/16 15:23	
1,3-Dichloropropene	ug/L	ND	0.50	12/22/16 15:23	N2
1,4-Dichlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
2,2-Dichloropropane	ug/L	ND	0.50	12/22/16 15:23	
2-Butanone (MEK)	ug/L	ND	4.0	12/22/16 15:23	N2
2-Chlorotoluene	ug/L	ND	0.50	12/22/16 15:23	
4-Chlorotoluene	ug/L	ND	0.50	12/22/16 15:23	
Acetone	ug/L	ND	5.0	12/22/16 15:23	
Benzene	ug/L	ND	0.50	12/22/16 15:23	
Bromobenzene	ug/L	ND	0.50	12/22/16 15:23	
Bromochloromethane	ug/L	ND	0.50	12/22/16 15:23	
Bromodichloromethane	ug/L	ND	1.0	12/22/16 15:23	
Bromoform	ug/L	ND	1.0	12/22/16 15:23	
Bromomethane	ug/L	ND	0.50	12/22/16 15:23	
Carbon tetrachloride	ug/L	ND	0.50	12/22/16 15:23	
Chlorobenzene	ug/L	ND	0.50	12/22/16 15:23	
Chloroethane	ug/L	ND	0.50	12/22/16 15:23	
Chloroform	ug/L	ND	1.0	12/22/16 15:23	
Chloromethane	ug/L	ND	0.50	12/22/16 15:23	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/22/16 15:23	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/22/16 15:23	
Dibromochloromethane	ug/L	ND	1.0	12/22/16 15:23	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

METHOD BLANK: 1826460 Matrix: Water
Associated Lab Samples: 60234808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	0.50	12/22/16 15:23	
Dichlorodifluoromethane	ug/L	ND	0.50	12/22/16 15:23	
Ethylbenzene	ug/L	ND	0.50	12/22/16 15:23	
Hexachloro-1,3-butadiene	ug/L	ND	0.50	12/22/16 15:23	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/22/16 15:23	
m&p-Xylene	ug/L	ND	0.50	12/22/16 15:23	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/22/16 15:23	
Methylene Chloride	ug/L	ND	0.50	12/22/16 15:23	
n-Butylbenzene	ug/L	ND	0.50	12/22/16 15:23	
n-Propylbenzene	ug/L	ND	0.50	12/22/16 15:23	
Naphthalene	ug/L	ND	0.50	12/22/16 15:23	
o-Xylene	ug/L	ND	0.50	12/22/16 15:23	
p-Isopropyltoluene	ug/L	ND	0.50	12/22/16 15:23	
sec-Butylbenzene	ug/L	ND	0.50	12/22/16 15:23	
Styrene	ug/L	ND	0.50	12/22/16 15:23	
tert-Butylbenzene	ug/L	ND	0.50	12/22/16 15:23	
Tetrachloroethene	ug/L	ND	0.50	12/22/16 15:23	
Toluene	ug/L	ND	0.50	12/22/16 15:23	
Total Trihalomethanes (Calc.)	ug/L	ND	1.0	12/22/16 15:23	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/22/16 15:23	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/22/16 15:23	
Trichloroethene	ug/L	ND	0.50	12/22/16 15:23	
Trichlorofluoromethane	ug/L	ND	0.50	12/22/16 15:23	
Vinyl chloride	ug/L	ND	0.50	12/22/16 15:23	
Xylene (Total)	ug/L	ND	0.50	12/22/16 15:23	
1,2-Dichloroethane-d4 (S)	%	103	70-130	12/22/16 15:23	
4-Bromofluorobenzene (S)	%	80	70-130	12/22/16 15:23	
Toluene-d8 (S)	%	91	70-130	12/22/16 15:23	

LABORATORY CONTROL SAMPLE & LCSD: 1826461 1826462

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	40	37.3	37.8	93	94	70-130	1	40	
1,1,1-Trichloroethane	ug/L	40	36.7	36.1	92	90	70-130	2	40	
1,1,2,2-Tetrachloroethane	ug/L	40	41.5	41.3	104	103	70-130	0	40	
1,1,2-Trichloroethane	ug/L	40	38.6	42.9	97	107	70-130	10	40	
1,1,2-Trichlorotrifluoroethane	ug/L	40	43.1	41.5	108	104	50-150	4	40	N2
1,1-Dichloroethane	ug/L	40	36.3	35.3	91	88	70-130	3	40	
1,1-Dichloroethene	ug/L	40	37.5	37.3	94	93	70-130	1	40	
1,1-Dichloropropene	ug/L	40	37.0	36.5	92	91	70-130	1	40	
1,2,3-Trichlorobenzene	ug/L	40	37.8	37.5	94	94	70-130	1	40	
1,2,3-Trichloropropane	ug/L	40	44.4	44.0	111	110	70-130	1	40	
1,2,3-Trimethylbenzene	ug/L	40	41.2	40.9	103	102	70-130	1	40	N2
1,2,4-Trichlorobenzene	ug/L	40	37.7	37.7	94	94	70-130	0	40	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

LABORATORY CONTROL SAMPLE & LCSD: 1826461 1826462

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	40	38.7	38.3	97	96	70-130	1	40	
1,2-Dibromoethane (EDB)	ug/L	40	37.7	39.9	94	100	70-130	6	40	N2
1,2-Dichlorobenzene	ug/L	40	38.7	38.5	97	96	70-130	0	40	
1,2-Dichloroethane	ug/L	40	37.4	36.9	94	92	70-130	2	40	
1,2-Dichloropropane	ug/L	40	33.2	33.3	83	83	70-130	0	40	
1,3,5-Trimethylbenzene	ug/L	40	41.0	40.7	102	102	70-130	1	40	
1,3-Dichlorobenzene	ug/L	40	39.3	38.5	98	96	70-130	2	40	
1,3-Dichloropropane	ug/L	40	37.0	41.0	93	103	70-130	10	40	
1,3-Dichloropropene	ug/L	80	67.1	63.5	84	79	70-130	6	40	N2
1,4-Dichlorobenzene	ug/L	40	40.0	38.1	100	95	70-130	5	40	
2,2-Dichloropropane	ug/L	40	33.8	32.6	84	82	70-130	3	40	
2-Butanone (MEK)	ug/L	80	83.8	84.5	105	106	70-130	1	40	N2
2-Chlorotoluene	ug/L	40	40.9	40.1	102	100	70-130	2	40	
4-Chlorotoluene	ug/L	40	40.9	40.4	102	101	70-130	1	40	
Acetone	ug/L	80	92.7	90.7	116	113	70-130	2	40	
Benzene	ug/L	40	35.9	36.0	90	90	70-130	0	40	
Bromobenzene	ug/L	40	40.9	40.2	102	100	70-130	2	40	
Bromochloromethane	ug/L	40	38.9	38.0	97	95	70-130	2	40	
Bromodichloromethane	ug/L	40	33.8	34.2	85	86	70-130	1	40	
Bromoform	ug/L	40	31.2	32.5	78	81	70-130	4	40	
Bromomethane	ug/L	40	31.2	33.6	78	84	70-130	7	40	
Carbon tetrachloride	ug/L	40	38.2	37.5	95	94	70-130	2	40	
Chlorobenzene	ug/L	40	38.8	38.5	97	96	70-130	1	40	
Chloroethane	ug/L	40	37.8	36.9	95	92	70-130	2	40	
Chloroform	ug/L	40	38.6	36.8	96	92	70-130	5	40	
Chloromethane	ug/L	40	33.5	34.1	84	85	70-130	2	40	
cis-1,2-Dichloroethene	ug/L	40	35.2	34.8	88	87	70-130	1	40	
cis-1,3-Dichloropropene	ug/L	40	32.4	31.5	81	79	70-130	3	40	
Dibromochloromethane	ug/L	40	34.9	39.0	87	97	70-130	11	40	
Dibromomethane	ug/L	40	34.9	34.4	87	86	70-130	2	40	
Dichlorodifluoromethane	ug/L	40	41.9	41.8	105	105	70-130	0	40	
Ethylbenzene	ug/L	40	39.1	38.9	98	97	70-130	0	40	
Hexachloro-1,3-butadiene	ug/L	40	38.6	38.7	97	97	70-130	0	40	
Isopropylbenzene (Cumene)	ug/L	40	39.3	38.8	98	97	70-130	1	40	
m&p-Xylene	ug/L	80	78.4	77.7	98	97	70-130	1	40	
Methyl-tert-butyl ether	ug/L	40	32.0	31.5	80	79	70-130	2	40	
Methylene Chloride	ug/L	40	39.0	37.3	98	93	70-130	4	40	
n-Butylbenzene	ug/L	40	42.4	42.3	106	106	70-130	0	40	
n-Propylbenzene	ug/L	40	40.2	39.5	101	99	70-130	2	40	
Naphthalene	ug/L	40	40.8	41.3	102	103	70-130	1	40	
o-Xylene	ug/L	40	39.6	39.0	99	97	70-130	2	40	
p-Isopropyltoluene	ug/L	40	40.8	40.1	102	100	70-130	2	40	
sec-Butylbenzene	ug/L	40	41.2	40.7	103	102	70-130	1	40	
Styrene	ug/L	40	37.9	37.8	95	94	70-130	0	40	
tert-Butylbenzene	ug/L	40	36.6	36.3	91	91	70-130	1	40	
Tetrachloroethene	ug/L	40	40.9	35.1	102	88	70-130	15	40	
Toluene	ug/L	40	36.9	36.5	92	91	70-130	1	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

LABORATORY CONTROL SAMPLE & LCSD: 1826461 1826462

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Trihalomethanes (Calc.)	ug/L	160	138	143	87	89	70-130	3	40	
trans-1,2-Dichloroethene	ug/L	40	36.3	36.5	91	91	70-130	0	40	
trans-1,3-Dichloropropene	ug/L	40	34.7	32.0	87	80	70-130	8	40	
Trichloroethene	ug/L	40	38.5	38.1	96	95	70-130	1	40	
Trichlorofluoromethane	ug/L	40	41.0	38.5	103	96	70-130	6	40	
Vinyl chloride	ug/L	40	37.5	36.8	94	92	70-130	2	40	
Xylene (Total)	ug/L	120	118	117	98	97	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%				105	104	70-130			
4-Bromofluorobenzene (S)	%				92	90	70-130			
Toluene-d8 (S)	%				94	91	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

QC Batch: 340728 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 60234808002

METHOD BLANK: 1828763 Matrix: Water
Associated Lab Samples: 60234808002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	0.50	12/23/16 18:15	N2
1,1-Dichloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/16 18:15	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/16 18:15	
1,2,3-Trichlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/16 18:15	
1,2,3-Trimethylbenzene	ug/L	ND	0.50	12/23/16 18:15	N2
1,2,4-Trichlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/16 18:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/16 18:15	N2
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/16 18:15	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/16 18:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/16 18:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/16 18:15	
1,3-Dichloropropene	ug/L	ND	0.50	12/23/16 18:15	N2
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/16 18:15	
2-Butanone (MEK)	ug/L	ND	4.0	12/23/16 18:15	N2
2-Chlorotoluene	ug/L	ND	0.50	12/23/16 18:15	
4-Chlorotoluene	ug/L	ND	0.50	12/23/16 18:15	
Acetone	ug/L	ND	5.0	12/23/16 18:15	
Benzene	ug/L	ND	0.50	12/23/16 18:15	
Bromobenzene	ug/L	ND	0.50	12/23/16 18:15	
Bromochloromethane	ug/L	ND	0.50	12/23/16 18:15	
Bromodichloromethane	ug/L	ND	1.0	12/23/16 18:15	
Bromoform	ug/L	ND	1.0	12/23/16 18:15	
Bromomethane	ug/L	ND	0.50	12/23/16 18:15	
Carbon tetrachloride	ug/L	ND	0.50	12/23/16 18:15	
Chlorobenzene	ug/L	ND	0.50	12/23/16 18:15	
Chloroethane	ug/L	ND	0.50	12/23/16 18:15	
Chloroform	ug/L	ND	1.0	12/23/16 18:15	
Chloromethane	ug/L	ND	0.50	12/23/16 18:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/16 18:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/16 18:15	
Dibromochloromethane	ug/L	ND	1.0	12/23/16 18:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

METHOD BLANK: 1828763 Matrix: Water
Associated Lab Samples: 60234808002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	0.50	12/23/16 18:15	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/16 18:15	
Ethylbenzene	ug/L	ND	0.50	12/23/16 18:15	
Hexachloro-1,3-butadiene	ug/L	ND	0.50	12/23/16 18:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/16 18:15	
m&p-Xylene	ug/L	ND	0.50	12/23/16 18:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/16 18:15	
Methylene Chloride	ug/L	ND	0.50	12/23/16 18:15	
n-Butylbenzene	ug/L	ND	0.50	12/23/16 18:15	
n-Propylbenzene	ug/L	ND	0.50	12/23/16 18:15	
Naphthalene	ug/L	ND	0.50	12/23/16 18:15	
o-Xylene	ug/L	ND	0.50	12/23/16 18:15	
p-Isopropyltoluene	ug/L	ND	0.50	12/23/16 18:15	
sec-Butylbenzene	ug/L	ND	0.50	12/23/16 18:15	
Styrene	ug/L	ND	0.50	12/23/16 18:15	
tert-Butylbenzene	ug/L	ND	0.50	12/23/16 18:15	
Tetrachloroethene	ug/L	ND	0.50	12/23/16 18:15	
Toluene	ug/L	ND	0.50	12/23/16 18:15	
Total Trihalomethanes (Calc.)	ug/L	ND	1.0	12/23/16 18:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/16 18:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/16 18:15	
Trichloroethene	ug/L	ND	0.50	12/23/16 18:15	
Trichlorofluoromethane	ug/L	ND	0.50	12/23/16 18:15	
Vinyl chloride	ug/L	ND	0.50	12/23/16 18:15	
Xylene (Total)	ug/L	ND	0.50	12/23/16 18:15	
1,2-Dichloroethane-d4 (S)	%	111	70-130	12/23/16 18:15	
4-Bromofluorobenzene (S)	%	78	70-130	12/23/16 18:15	
Toluene-d8 (S)	%	93	70-130	12/23/16 18:15	

LABORATORY CONTROL SAMPLE & LCSD: 1828764 1828765

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	40	40.1	38.1	100	95	70-130	5	40	
1,1,1-Trichloroethane	ug/L	40	38.4	36.7	96	92	70-130	5	40	
1,1,2,2-Tetrachloroethane	ug/L	40	39.7	36.8	99	92	70-130	8	40	
1,1,2-Trichloroethane	ug/L	40	39.7	41.5	99	104	70-130	4	40	
1,1,2-Trichlorotrifluoroethane	ug/L	40	42.8	42.0	107	105	50-150	2	40	N2
1,1-Dichloroethane	ug/L	40	36.3	35.7	91	89	70-130	2	40	
1,1-Dichloroethene	ug/L	40	37.8	38.3	94	96	70-130	1	40	
1,1-Dichloropropene	ug/L	40	37.9	36.9	95	92	70-130	3	40	
1,2,3-Trichlorobenzene	ug/L	40	36.6	35.0	91	88	70-130	4	40	
1,2,3-Trichloropropane	ug/L	40	40.3	39.0	101	97	70-130	3	40	
1,2,3-Trimethylbenzene	ug/L	40	41.9	41.5	105	104	70-130	1	40	N2
1,2,4-Trichlorobenzene	ug/L	40	36.8	36.0	92	90	70-130	2	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

LABORATORY CONTROL SAMPLE & LCSD: 1828764 1828765

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	40	39.3	39.1	98	98	70-130	1	40	
1,2-Dibromoethane (EDB)	ug/L	40	39.5	37.3	99	93	70-130	6	40	N2
1,2-Dichlorobenzene	ug/L	40	39.5	38.1	99	95	70-130	4	40	
1,2-Dichloroethane	ug/L	40	40.0	37.9	100	95	70-130	5	40	
1,2-Dichloropropane	ug/L	40	34.6	32.5	86	81	70-130	6	40	
1,3,5-Trimethylbenzene	ug/L	40	41.5	41.2	104	103	70-130	1	40	
1,3-Dichlorobenzene	ug/L	40	39.2	38.6	98	97	70-130	1	40	
1,3-Dichloropropane	ug/L	40	41.6	39.5	104	99	70-130	5	40	
1,3-Dichloropropene	ug/L	80	61.2	67.6	77	84	70-130	10	40	N2
1,4-Dichlorobenzene	ug/L	40	41.0	38.1	102	95	70-130	7	40	
2,2-Dichloropropane	ug/L	40	33.1	32.8	83	82	70-130	1	40	
2-Butanone (MEK)	ug/L	80	66.7	67.7	83	85	70-130	2	40	N2
2-Chlorotoluene	ug/L	40	39.7	40.1	99	100	70-130	1	40	
4-Chlorotoluene	ug/L	40	42.0	40.7	105	102	70-130	3	40	
Acetone	ug/L	80	70.4	66.8	88	83	70-130	5	40	
Benzene	ug/L	40	36.3	35.5	91	89	70-130	2	40	
Bromobenzene	ug/L	40	41.4	40.3	104	101	70-130	3	40	
Bromochloromethane	ug/L	40	40.1	39.5	100	99	70-130	1	40	
Bromodichloromethane	ug/L	40	36.6	35.6	92	89	70-130	3	40	
Bromoform	ug/L	40	30.5	29.6	76	74	70-130	3	40	
Bromomethane	ug/L	40	38.2	41.2	95	103	70-130	8	40	
Carbon tetrachloride	ug/L	40	40.8	40.8	102	102	70-130	0	40	
Chlorobenzene	ug/L	40	39.8	38.0	99	95	70-130	5	40	
Chloroethane	ug/L	40	43.8	45.6	109	114	70-130	4	40	
Chloroform	ug/L	40	40.6	37.9	101	95	70-130	7	40	
Chloromethane	ug/L	40	32.3	34.2	81	85	70-130	6	40	
cis-1,2-Dichloroethene	ug/L	40	35.9	35.1	90	88	70-130	2	40	
cis-1,3-Dichloropropene	ug/L	40	31.5	30.7	79	77	70-130	2	40	
Dibromochloromethane	ug/L	40	38.0	39.0	95	98	70-130	3	40	
Dibromomethane	ug/L	40	34.8	33.7	87	84	70-130	3	40	
Dichlorodifluoromethane	ug/L	40	38.3	38.9	96	97	70-130	2	40	
Ethylbenzene	ug/L	40	39.5	38.1	99	95	70-130	3	40	
Hexachloro-1,3-butadiene	ug/L	40	37.5	36.4	94	91	70-130	3	40	
Isopropylbenzene (Cumene)	ug/L	40	39.8	38.2	100	95	70-130	4	40	
m&p-Xylene	ug/L	80	79.6	75.9	99	95	70-130	5	40	
Methyl-tert-butyl ether	ug/L	40	30.9	30.3	77	76	70-130	2	40	
Methylene Chloride	ug/L	40	39.3	38.4	98	96	70-130	2	40	
n-Butylbenzene	ug/L	40	43.9	42.8	110	107	70-130	3	40	
n-Propylbenzene	ug/L	40	41.3	39.7	103	99	70-130	4	40	
Naphthalene	ug/L	40	34.9	34.6	87	87	70-130	1	40	
o-Xylene	ug/L	40	39.2	38.0	98	95	70-130	3	40	
p-Isopropyltoluene	ug/L	40	41.0	41.2	102	103	70-130	1	40	
sec-Butylbenzene	ug/L	40	42.3	41.5	106	104	70-130	2	40	
Styrene	ug/L	40	40.5	37.0	101	92	70-130	9	40	
tert-Butylbenzene	ug/L	40	40.7	40.8	102	102	70-130	0	40	
Tetrachloroethene	ug/L	40	37.2	40.8	93	102	70-130	9	40	
Toluene	ug/L	40	39.4	37.0	98	93	70-130	6	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

LABORATORY CONTROL SAMPLE & LCSD: 1828764 1828765

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Trihalomethanes (Calc.)	ug/L	160	146	142	91	89	70-130	2	40	
trans-1,2-Dichloroethene	ug/L	40	37.3	36.7	93	92	70-130	2	40	
trans-1,3-Dichloropropene	ug/L	40	29.8	36.9	74	92	70-130	21	40	
Trichloroethene	ug/L	40	38.2	39.2	95	98	70-130	2	40	
Trichlorofluoromethane	ug/L	40	46.4	47.3	116	118	70-130	2	40	
Vinyl chloride	ug/L	40	36.9	37.5	92	94	70-130	2	40	
Xylene (Total)	ug/L	120	119	114	99	95	70-130	4	40	
1,2-Dichloroethane-d4 (S)	%				105	104	70-130			
4-Bromofluorobenzene (S)	%				91	87	70-130			
Toluene-d8 (S)	%				94	93	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

QC Batch: 340470 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
Associated Lab Samples: 60234808001

METHOD BLANK: 1826993 Matrix: Water
Associated Lab Samples: 60234808001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	12/23/16 12:55	

LABORATORY CONTROL SAMPLE & LCSD: 1826994 1827188

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.19	0.24	77	96	70-130	23	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1827189 1827190

Parameter	Units	60234808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.44	.44	0.52	0.53	118	122	65-135	3	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

QC Batch: 340744
QC Batch Method: EPA 504.1
Analysis Method: EPA 504.1
Analysis Description: 504 EDB DBCP
Associated Lab Samples: 60234808002

METHOD BLANK: 1828941 Matrix: Water
Associated Lab Samples: 60234808002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	0.020	12/27/16 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	12/27/16 12:38	

LABORATORY CONTROL SAMPLE & LCSD: 1828942 1829282

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.23	0.19	91	75	70-130	19	40	
1,2-Dibromoethane (EDB)	ug/L	.25	0.21	0.19	86	76	70-130	12	40	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1829283 1829284

Parameter	Units	35284500004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<0.0046	.44	.44	0.55	0.56	126	128	65-135	2	40	
1,2-Dibromoethane (EDB)	ug/L	<0.0071	.44	.44	0.56	0.57	129	130	65-135	1	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074957 WELD COUNTY GAS PLANT
Pace Project No.: 60234808

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60234808001	**GW-74957-122116-EV-001**	EPA 504.1	340470	EPA 504.1	340593
60234808002	**Trip Blank-122116**	EPA 504.1	340744	EPA 504.1	340904
60234808001	**GW-74957-122116-EV-001**	EPA 524.2	340410		
60234808002	**Trip Blank-122116**	EPA 524.2	340728		

Chain of Custody

WO# : 35285012

35285012

Pace Analytical
www.pacelabs.com

Workorder: 60234808 **Workorder Name:**074957 WELD COUNTY GAS PLANT **Owner Received Date:** 12/21/2016 **Results Requested By:** 12/23/2016

Report To	Subcontract To
Richard Mannz Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	DG9H						524 Full list	504 EDB only											LAB USE ONLY
1	GW-74957-122116-EV-001	PS	12/21/2016 12:45	60234808001	Water	5						X												
2	Trip Blank-122116	PS	12/21/2016 12:45	60234808002	Water	2						X												
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received	Date/Time
1			[signature]	12/21/16 1300
2				
3				

Comments

Cooler Temperature on Receipt 4.6 °C IR6 **Custody Seal** (Y) or N **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 10, 2016
	Document No.: F-FL-C-007 rev. 10	Issuing Authority: Pace Florida Quality Office

Sampl

WO#: 35285012

PM: MIM **Due Date: 01/03/17**

CLIENT: PACKSC

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents:
Label:
Deliver: BM
pH:

Thermometer Used: T276 Date: 12/22/16 Time: 1300 Initials: MA

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Cooler #1 Temp.°C	4.5 (Visual)	+0.1 (Correction Factor)	4.6 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ Other

Billing: ☐ Recipient ☑ Sender ☐ Third Party ☐ Unknown

Tracking # 8083 6956 0573

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No **Seals intact:** ☑ Yes ☐ No **Ice:** (Wet) Blue None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other plastic bag

		Comments:
Chain of Custody Present	☑Yes ☐No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐No ☐N/A	
Rush TAT requested on COC	☑Yes ☐No ☐N/A	
Sufficient Volume	☑Yes ☐No ☐N/A	
Correct Containers Used	☑Yes ☐No ☐N/A	
Containers Intact	☑Yes ☐No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐No ☑N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☑No ☐N/A	
Trip Blank Present:	☑Yes ☐No ☐N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical
www.pacelabs.com

Ship To:
Pace Analytical Ormond Beach
8 East Tower Circle
Ormond Beach, FL 32174
Phone (386)672-5668

INTER_LABORATORY WORK ORDER # 20120
(To be completed by sending lab)

Sending Project No:	60234808
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	[redacted]
REQUESTED COMPLETION DATE:	12/21/16
	12/23/2016

Sending Region	IR60-Kansas	Sending Project Mgr.	Richard Mannz
Receiving Region	IR35-Ormand Beach	External Client	GHD Services Inc. COLORADO
State of Sample Origin	CO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? N/A Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
504 EDB only	DG9H	7	HCL	2	$94.00	$188.00
524 Full List	DG9H	7	HCL	2	$300.00	$600.00

TOTAL $788.00

Special Requirements:

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region	Client Services Dept. Sending Region
GC Volatiles*	33	$188.00	$37.60	$150.40
GC/MS Volatiles*	34	$600.00	$120.00	$480.00
* Custom Revenue Allocation	TOTAL	$788.00	$157.60	$630.40

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Chain of Custody Included: Yes x No Return Samples to Sending Region: Yes No x

Matrix: Soil Water x Air Other (identify)

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

WO#: 35285012
PM: MIM Due Date: 01/03/17
CLIENT: PACKSC

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A Required Client Information:

Company:	GHD
Address:	14998 West 6th Ave Ste 800 Golden, CO 80401
Email To:	angela.bown@GHD.com
Phone: 720 974 0935	Fax:
Requested Due Date/TAT:	Rush 48 hr.

Section B Required Project Information:

Report To:	Angela Bown
Copy To:	Chrissi Ruby; christina.ruby@GHD.com
Purchase Order No.:	
Project Name:	Conoco Phillips - Weld Co Gas Plant
Project Number:	074957-003

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Richard Mannz
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: CO

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Select VOCs EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-74957-122116-EV-001	WT	G			122116	1245		5				5					X X		
2	Trip Blank - 122116	WT	—						2				2					X X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
RUSH 48hr. TAT	E Varnas / GHD	122116	1420	/ Pace	12/21/16	1420				
	/ Pace	12/21/16	1430	PACE 12/22/16 1300			4.6 T216	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evan Varnas

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/21/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007