

30-045-24316

Analytical Report

OIL CONS. DIV DIST. 3

JUL 29 2014

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 17131

Samples Received: 6/25/2014 4:20:00PM

Job Number: 96052-1706

Work Order: P406108

Project Name/Location: Shepherd & Kelsey 1E

Entire Report Reviewed By:



Date: 7/1/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Shepherd & Kelsey 1E
Project Number: 96052-1706
Project Manager: Jade Bradford

Reported:
01-Jul-14 08:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bradenhead	P406108-01A	Aqueous	06/25/14	06/25/14	Poly 500mL

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips	Project Name:	Shepherd & Kelsey IE	Reported: 01-Jul-14 08:47
PO Box 2200	Project Number:	96052-1706	
Bartlesville OK, 74005	Project Manager:	Jade Bradford	

**Bradenhead
P406108-01 (Water)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cation/Anion Analysis									
pH @25°C	11.7		pH Units	1	1426026	06/26/14 11:02	06/26/14 11:03	EPA 150.1	H2
Electrical Conductivity	28500		umhos/cm	1	1426026	06/26/14 11:02	06/26/14 11:03	EPA 120.1	H2
Total Dissolved Solids	17300		mg/L	1	1426028	06/26/14	06/26/14	EPA 160.1	
Sodium Absorption Ratio	82.6		N/A	1	1427005	06/30/14	06/30/14	[CALC]	
Total Alkalinity as CaCO3	ND	1000	mg/L	100	1426029	06/26/14	06/26/14	Hach Method 8203	
Total Hardness as CaCO3	544	0.07	mg/L		[CALC]	06/27/14	06/30/14	[CALC]	
Bicarbonate as CaCO3	ND	1000	mg/L	100	1426029	06/26/14	06/26/14	Hach Method 8203	
Carbonate as CaCO3	1600	1000	mg/L	100	1426029	06/26/14	06/26/14	Hach Method 8203	
Hydroxide as CaCO3	2300	1000	mg/L	100	1426029	06/26/14	06/26/14	Hach Method 8203	
Nitrate-N	ND	1.00	mg/L	10	1426030	06/26/14 11:36	06/26/14 14:57	EPA 300.0	
Nitrite-N	ND	1.00	mg/L	10	1426030	06/26/14 11:36	06/26/14 14:57	EPA 300.0	
Chloride	10200	10.0	mg/L	10	1426030	06/26/14	06/26/14	EPA 300.0	
Fluoride	18.0	1.00	mg/L	10	1426030	06/26/14	06/26/14	EPA 300.0	
o-Phosphate	ND	5.00	mg/L	10	1426030	06/26/14 11:36	06/26/14 14:57	EPA 300.0	
Sulfate	47.3	10.0	mg/L	10	1426030	06/26/14	06/26/14	EPA 300.0	
Iron	0.57	0.01	mg/L	1	1426040	06/27/14	06/30/14	EPA 6010C	
Calcium	218	0.01	mg/L	1	1426040	06/27/14	06/30/14	EPA 6010C	
Magnesium	0.04	0.01	mg/L	1	1426040	06/27/14	06/30/14	EPA 6010C	
Potassium	28.2	0.01	mg/L	1	1426040	06/27/14	06/30/14	EPA 6010C	
Sodium	4430	0.01	mg/L	1	1426040	06/27/14	06/30/14	EPA 6010C	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Shepherd & Kelsey 1E
Project Number: 96052-1706
Project Manager: Jade Bradford

Reported:
01-Jul-14 08:47

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1426030 - Anion Extraction EPA 300.0

Blank (1426030-BLK1)

Prepared & Analyzed: 26-Jun-14

Nitrate-N	ND	0.10	mg/L
Nitrite-N	ND	0.10	"
Chloride	ND	1.00	"
Fluoride	ND	0.10	"
o-Phosphate	ND	0.50	"
Sulfate	ND	1.00	"

LCS (1426030-BS1)

Prepared & Analyzed: 26-Jun-14

Nitrate-N	5.02	0.10	mg/L	5.00	100	90-110
Nitrite-N	5.15	0.10	"	5.00	103	90-110
Chloride	50.4	1.00	"	50.0	101	90-110
Fluoride	5.14	0.10	"	5.00	103	90-110
o-Phosphate	24.4	0.50	"	25.0	97.5	90-110
Sulfate	50.1	1.00	"	50.0	100	90-110

Matrix Spike (1426030-MS1)

Source: P406108-01

Prepared & Analyzed: 26-Jun-14

Nitrate-N	50.8	1.00	mg/L	50.0	ND	102	80-120	
Nitrite-N	64.9	1.00	"	50.0	ND	130	80-120	SPK 1
Chloride	10800	10.0	"	500	10200	122	80-120	SPK 1
Fluoride	46.3	1.00	"	50.0	18.0	56.7	80-120	SPK 1
o-Phosphate	43.3	5.00	"	250	ND	17.3	80-120	SPK 1
Sulfate	554	10.0	"	500	47.3	101	80-120	

Matrix Spike Dup (1426030-MSD1)

Source: P406108-01

Prepared & Analyzed: 26-Jun-14

Nitrate-N	50.8	1.00	mg/L	50.0	ND	102	80-120	0.00	20	
Nitrite-N	65.6	1.00	"	50.0	ND	131	80-120	1.09	20	SPK 1
Chloride	10800	10.0	"	500	10200	117	80-120	0.245	20	
Fluoride	45.4	1.00	"	50.0	18.0	54.8	80-120	2.05	20	SPK 1
o-Phosphate	39.7	5.00	"	250	ND	15.9	80-120	8.65	20	SPK 1
Sulfate	554	10.0	"	500	47.3	101	80-120	0.00360	20	

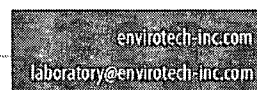
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fx (800) 362-1879



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Shepherd & Kelsey IE
Project Number: 96052-1706
Project Manager: Jade Bradford

Reported:
01-Jul-14 08:47

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

H2 Sample was analyzed after regulatory hold-time exceeded for target analyte.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

CHAIN OF CUSTODY RECORD

17131

Client: Conoco Phillips			Project Name / Location: Shepherd + Kelsey 1E			ANALYSIS / PARAMETERS													
Email results to:			Sampler Name: Colby McKee			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: Jade Bradford 599-4043			Client No.: 608-4307 96052-1706																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
Braden head	6-25	11:00	P406108-01	1-500 mL poly							X	per Jade							X
												6/26/14							
Relinquished by: (Signature) Colby McKee				Date 6-25	Time 2:20	Received by: (Signature) Miranda				Date 6/25	Time 2:20								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil ☐ Solid ☐ Sludge ☐ Aqueous ☒ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area. GARRELD AM01842447 per Jade 6/26/14 TK																			

