

OIL CONS. DIV DIST. 3

MAY 20 2016

Analytical Report**Report Summary**

Client: ConocoPhillips

Chain Of Custody Number: 16810

Samples Received: 4/8/2014 7:50:00AM

Job Number: 96052-1706

Work Order: P404019

Project Name/Location: **Callaway SRC 1**

Entire Report Reviewed By:



Date: 4/14/14

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: Callaway SRC 1
Project Number: 96052-1706
Project Manager: Michelle Wilcox

Reported:
14-Apr-14 10:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Callaway SRC 1	P404019-01A	Aqueous	04/08/14	04/08/14	Poly 500mL
	P404019-01B	Aqueous	04/08/14	04/08/14	VOA Vial, 40mL
	P404019-01C	Aqueous	04/08/14	04/08/14	VOA Vial, 40mL
	P404019-01D	Aqueous	04/08/14	04/08/14	VOA Vial, 40mL

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
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Callaway SRC 1
 Project Number: 96052-1706
 Project Manager: Michelle Wilcox

 Reported:
 14-Apr-14 10:21

Callaway SRC 1
P404019-01 (Water)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cation/Anion Analysis									
pH @23.9°C	10.5		pH Units	1	1415014	04/08/14	04/08/14	EPA 9045D	
Electrical Conductivity	15300		umhos/cm	1	1415016	04/08/14 14:39	04/08/14 14:40	EPA 120.1	
Total Dissolved Solids	10600		mg/L	1	1415017	04/08/14	04/08/13	EPA 160.1	
Sodium Absorption Ratio	59.5		N/A	1	1416003	04/14/14	04/14/14	[CALC]	
Total Alkalinity as CaCO3	210	10.0	mg/L	1	1415015	04/08/14	04/08/14	Hach Method 8203	
Total Hardness as CaCO3	517	0.07	mg/L		[CALC]	04/08/14	04/11/14	[CALC]	
Bicarbonate as CaCO3	210	10.0	mg/L	1	1415015	04/08/14	04/08/14	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1415015	04/08/14	04/08/14	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1415015	04/08/14	04/08/14	Hach Method 8203	
Nitrate-N	ND	1.00	mg/L	10	1415018	04/08/14 14:50	04/08/14 18:48	EPA 300.0	
Nitrite-N	ND	1.00	mg/L	10	1415018	04/08/14 14:50	04/08/14 18:48	EPA 300.0	
Chloride	3190	10.0	mg/L	10	1415018	04/08/14	04/08/14	EPA 300.0	
Fluoride	1.75	1.00	mg/L	10	1415018	04/08/14	04/08/14	EPA 300.0	
o-Phosphate	23.1	5.00	mg/L	10	1415018	04/08/14 14:50	04/08/14 18:48	EPA 300.0	
Sulfate	4440	10.0	mg/L	10	1415018	04/08/14	04/08/14	EPA 300.0	
Iron	0.04	0.01	mg/L	1	1415011	04/08/14	04/11/14	EPA 6010C	
Calcium	207	0.01	mg/L	1	1415011	04/08/14	04/11/14	EPA 6010C	
Magnesium	0.16	0.01	mg/L	1	1415011	04/08/14	04/11/14	EPA 6010C	
Potassium	12.4	0.01	mg/L	1	1415011	04/08/14	04/11/14	EPA 6010C	
Sodium	3110	0.01	mg/L	1	1415011	04/08/14	04/11/14	EPA 6010C	

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
PO Box 2200
Bartlesville OK, 74005

Project Name: Callaway SRC 1
Project Number: 96052-1706
Project Manager: Michelle Wilcox

Reported:
14-Apr-14 10:21

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 1415018 - Anion Extraction EPA 300.0

Blank (1415018-BLK1)

Prepared & Analyzed: 08-Apr-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 (1415018-BS1)

Prepared & Analyzed: 08-Apr-14

Nitrate-N	4.64	0.10	mg/L	5.00		92.8	90-110
Nitrite-N	4.95	0.10	"	5.00		99.1	90-110
Chloride	49.5	1.00	"	50.0		99.0	90-110
Fluoride	5.08	0.10	"	5.00		102	90-110
o-Phosphate	24.6	0.50	"	25.0		98.3	90-110
Sulfate	49.5	1.00	"	50.0		99.1	90-110

Matrix Spike (1415018-MS1)

Source: P404018-01

Prepared & Analyzed: 08-Apr-14

Nitrate-N	46.3	1.00	mg/L	50.0	ND	92.6	80-120
Nitrite-N	46.8	1.00	"	50.0	ND	93.7	80-120
Chloride	4280	10.0	"	500	3810	95.3	80-120
Fluoride	50.7	1.00	"	50.0	1.66	98.1	80-120
o-Phosphate	58.5	5.00	"	250	ND	23.4	80-120
Sulfate	3750	10.0	"	500	3250	99.6	80-120

SPK 1

Matrix Spike Dup (1415018-MSD1)

Source: P404018-01

Prepared & Analyzed: 08-Apr-14

Nitrate-N	46.4	1.00	mg/L	50.0	ND	92.8	80-120	0.259	20
Nitrite-N	47.4	1.00	"	50.0	ND	94.7	80-120	1.10	20
Chloride	4280	10.0	"	500	3810	95.1	80-120	0.0310	20
Fluoride	51.4	1.00	"	50.0	1.66	99.5	80-120	1.41	20
o-Phosphate	59.6	5.00	"	250	ND	23.9	80-120	1.88	20
Sulfate	3750	10.0	"	500	3250	99.2	80-120	0.0602	20

SPK 1

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: Callaway SRC 1
Project Number: 96052-1706
Project Manager: Michelle Wilcox

Reported:
14-Apr-14 10:21

Notes and Definitions

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

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.

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

CHAIN OF CUSTODY RECORD

16810

Client: <i>Conoco Phillips</i>			Project Name / Location: <i>Callaway SRC 1</i>			ANALYSIS / PARAMETERS													
Email results to: <i>Michelle Wilcox</i>			Sampler Name: <i>API 30-045-1059 3</i>			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.: <i>Michelle J. Wilcox @ Conoco Phillips, ccm 96052-1706</i>			Client No.: <i>96052-1706</i>																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative														
	4-8-14	6:50	P404019-01		HNO ₃	HCl													
																		X	X
Relinquished by: (Signature) <i>[Signature]</i>				Date 4-8-14	Time 7:50	Received by: (Signature) <i>[Signature]</i>				Date 4/8/14	Time 7:50								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix Soil ☐ Solid ☐ Sludge ☐ Aqueous ☒ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



5.3