

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

30-045-35006

Initial Report Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company		Contact Kelsi Harrington
Address 3401 E. 30th St., Farmington, NM 87402		Telephone No. 505-599-3403
Facility Name Trail Canyon 100S		Facility Type Gas Well API # 3004535006
Surface Owner Federal	Mineral Owner Federal	Lease No. SF-079329

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	12	32N	09W	1590'	South	425'	East	San Juan

Latitude **36.995457° N** Longitude **-107.721993° W**

RCUD JAN 18 '11
OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release – Produced Water	Volume of Release – 17.8 BBL	Volume Recovered – 0 BBL
Source of Release: Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/26/2010 8:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell (NMOCD)- verbal & email Sherrie Landon (BLM)- email	
By Whom? Shelly Cook-Cowden	Date and Hour – 12/27/10	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. * **A produced water release from a pipeline near the Trail Canyon 100S well pad was discovered. The release traveled from the pipeline leak, down the access road approximately 207', past a culvert and continued down an ephemeral watercourse approximately 2100'. No water was flowing in the ephemeral watercourse.**

Describe Cause of Problem and Remedial Action Taken. * **On December 26, 2010, a pipeline leak was discovered near the Trail Canyon 100S well pad. Upon discovery, the leak was isolated.**

Describe Area Affected and Cleanup Action Taken. * **As stated above, The fluid traveled from the pipeline leak, down the access road approximately 207', past a culvert and continued down an ephemeral watercourse approximately 2100'. A spill assessment occurred and all samples returned results below the regulatory limit for organic vapors in the field. In addition, the source sample, the highest wash sample, and the sample from the end of the release flow path were analyzed for TPH using USEPA Method 8015 and chloride using USEPA Method 4500B. The samples returned results below the regulatory standards for all constituents analyzed; therefore no further action is needed.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Kelsi Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>Jonathan D. Kelly</i>	
Title: Environmental Consultant	Approval Date: <i>1/11/2012</i>	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/17/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

nJK 1201130967



January 11, 2011

Project No. 92115-1543

Ms. Kelsi Harrington
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-3403
Fax: (505) 599-4005

**RE: SPILL ASSESSMENT DOCUMENTATION FOR THE TRAIL CANYON UNIT 100S (hBr)
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington:

Attached please find the field notes and analytical results for spill assessment activities performed at the Trail Canyon Unit 100S (hBr) well site located in Section 12, Township 32 North, Range 9 West, San Juan County, New Mexico. Upon Envirotech's arrival on December 28, 2010, a brief site assessment was conducted. Due to the spill path infiltrating a nearby wash, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

A release of produced water had occurred from a pipeline leak near the location. The release had traveled from the pipeline leak, down the access road approximately 207 feet, past a culvert and continued down a wash approximately 2100 feet; see attached *Site Map*. Nine (9) composite samples were collected from the areas affected by the release. One (1) sample was collected from the source, one (1) sample was collected from the area from the source to the road, one (1) sample was collected from the area from the road to the culvert, and the remaining six (6) samples were collected from the wash and designated as wash 1, 2, 3, 4, 5, and 6. The samples were screened in the field for TPH using USEPA Method 418.1, organic vapors using a photoionization detector (PID) and for chlorides. All samples returned results below 100 ppm for organic vapors. The source to road, road to culvert, and wash 1 samples returned results below the regulatory standard for TPH. The source, wash 2, 3, 4, 5, and 6 samples all returned results above the regulatory standard for TPH. The samples returned result ranging from 62 ppm to 189 ppm for chlorides; see attached *Field Notes*. The source sample, the highest wash sample (wash 4), and the sample from the end of the release flow path (wash 6) were each collected into four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and chloride using USEPA Method 4500B. The sample returned results below the regulatory standards for all constituents analyzed; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

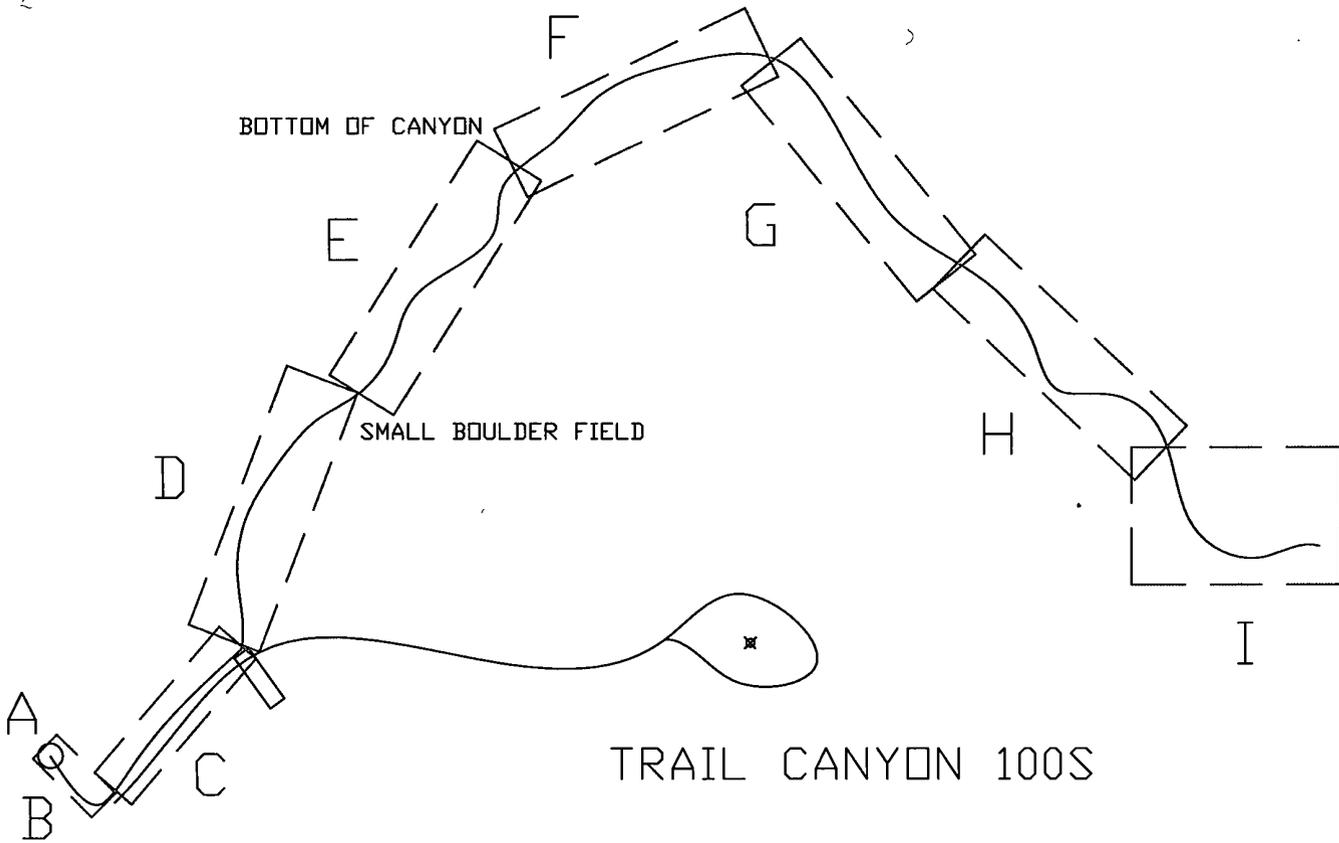
Respectfully submitted,
ENVIROTECH, INC.

 - For
Barian Williamson
Senior Environmental Technician
bwilliamson@envirotech-inc.com

Enclosure(s): Site Map
Analytical Results

Cc: Client File 92115

TRAVEL DISTANCE 2370 FEET



- A - SOURCE - 680 PPM TPH/ 189 PPM CL-
- B - SOURCE TO ROAD - 80 PPM TPH/ 134 PPM CL-
- C - ROAD TO CULVERT - 76 PPM TPH / 110 PPM CL-
- D - WASH COMPOSITE 1 - 96 PPM TPH / 189 PPM CL-
- E - WASH COMPOSITE 2 - 272 PPM TPH / 122 PPM CL-
- F - WASH COMPOSITE 3 - 152 PPM TPH / 62 PPM CL-
- G - WASH COMPOSITE 4 - 312 PPM TPH / 160 PPM CL-
- H - WASH COMPOSITE 5 - 156 PPM TPH / 80 PPM CL-
- I - WASH COMPOSITE 6 - 148 PPM TPH / 100 PPM CL-

- SPILL PATH
- SAMPLE AREAS
- ROAD TO WELLSITE

SITE MAP CONOCOPHILLIPS TRAIL CANYON 100S SECTION 12 TOWNSHIP 32N RANGE 9W SPILL ASSESSMENT			
SCALE: NTS	FIGURE NO. 1	REV	
PROJECT N092115-1543			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	BWW	12-30-10	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 1 Date Reported: 1/11/2011
Sample ID: Source Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 680 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Julian Williamson FOR
Analyst

Greg Crabtree
Review

Barian Williamson
Printed

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 2 Date Reported: 1/11/2011
Sample ID: Source to Road Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	80	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Trail Canyon Unit 100S (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Jessie Winters FOR
Analyst

Greg Crabtree
Review

Barian Williamson
Printed

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 3 Date Reported: 1/11/2011
Sample ID: Road to Culvert Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 76 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Jessie N. ... For
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 4 Date Reported: 1/11/2011
Sample ID: Wash 1 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 96 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Jessie Winters For
Analyst

Greg Crabtree
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Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 5 Date Reported: 1/11/2011
Sample ID: Wash 2 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	272	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Barian Williamson

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Greg Crabtree, PE

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 6 Date Reported: 1/11/2011
Sample ID: Wash 4 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 312 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Barian Williamson

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Greg Crabtree, PE

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 7 Date Reported: 1/11/2011
Sample ID: Wash 3 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 152 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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Greg Crabtree, PE
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 8 Date Reported: 1/11/2011
Sample ID: Wash 5 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 156 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Jimmie Winters For
Analyst

Greg Crabtree
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Barian Williamson
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Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 9 Date Reported: 1/11/2011
Sample ID: Wash 6 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons 148 5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Trail Canyon Unit 100S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Barian Williamson For
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 28-Dec-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	186
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Julie Wintam. For
Analyst

1/11/2011
Date

Barian Williamson
Print Name

[Signature]
Review

1/11/2011
Date

Greg Crabtree, PE
Print Name



Field Chloride

Client:	ConocoPhillips	Project #:	92115-1543
Sample No.:	1	Date Reported:	1/11/2011
Sample ID:	Source	Date Sampled:	12/28/2010
Sample Matrix:	Soil	Date Analyzed:	12/28/2010
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride	189	33.0
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ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Julie Winters - For
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
Printed



Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 2 Date Reported: 1/11/2011
Sample ID: Source to Road Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	134	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Julie Winters For
Analyst

Greg Crabtree
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Greg Crabtree, PE
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Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 3 Date Reported: 1/11/2011
Sample ID: Road to Culvert Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	110	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Jessie Minetti - For
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
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Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 4 Date Reported: 1/11/2011
Sample ID: Wash 1 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	189	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)



Analyst

Barian Williamson

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Greg Crabtree, PE

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Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 5 Date Reported: 1/11/2011
Sample ID: Wash 2 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride	122	33.0
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ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Julie Winters For
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
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Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 7 Date Reported: 1/11/2011
Sample ID: Wash 3 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride 62 33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Julie Winters *EDK*
Analyst

Greg Crabtree
Review

Barian Williamson
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Greg Crabtree, PE
Printed



Field Chloride

Client: ConocoPhillips Project #: 92115-1543
Sample No.: 8 Date Reported: 1/11/2011
Sample ID: Wash 5 Date Sampled: 12/28/2010
Sample Matrix: Soil Date Analyzed: 12/28/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	80	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)


Analyst

Barian Williamson
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Review

Greg Crabtree, PE
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Field Chloride

Client:	ConocoPhillips	Project #:	92115-1543
Sample No.:	9	Date Reported:	1/11/2011
Sample ID:	Wash 6	Date Sampled:	12/28/2010
Sample Matrix:	Soil	Date Analyzed:	12/28/2010
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	100	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: Trail Canyon Unit 100S (hBr)

Barian Williamson For
Analyst

Barian Williamson
Printed

Greg Crabtree
Review

Greg Crabtree, PE
Printed

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Source	Date Reported:	12-29-10
Laboratory Number:	56922	Date Sampled:	12-28-10
Chain of Custody No:	10977	Date Received:	12-28-10
Sample Matrix:	Soil	Date Extracted:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	25.8	0.1
Total Petroleum Hydrocarbons	25.8	

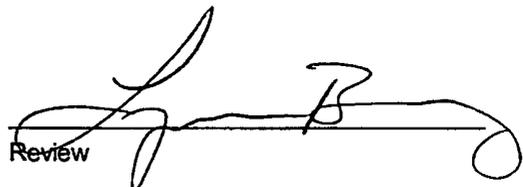
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Trail Canyon 100 S**



Analyst



Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Wash #4	Date Reported:	12-29-10
Laboratory Number:	56923	Date Sampled:	12-28-10
Chain of Custody No:	10977	Date Received:	12-28-10
Sample Matrix:	Soil	Date Extracted:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	5.3	0.1
Total Petroleum Hydrocarbons	5.3	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Trail Canyon 100 S**



Analyst



Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

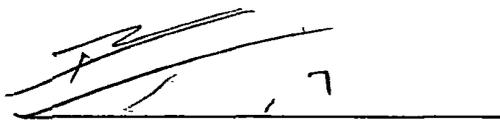
Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Wash #6	Date Reported:	12-29-10
Laboratory Number:	56924	Date Sampled:	12-28-10
Chain of Custody No:	10977	Date Received:	12-28-10
Sample Matrix:	Soil	Date Extracted:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	6.3	0.1
Total Petroleum Hydrocarbons	6.3	

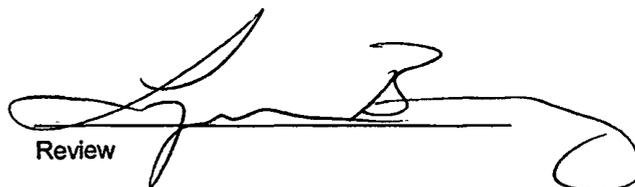
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Trail Canyon 100 S**



Analyst



Review

**EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-29-10 QA/QC	Date Reported:	12-29-10
Laboratory Number:	56922	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-29-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	12-29-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	12-29-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

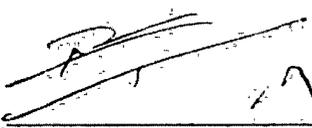
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	25.8	25.3	1.9%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	257	103%	75 - 125%
Diesel Range C10 - C28	25.8	250	286	104%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 56922-56924



Analyst

Review



Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Source	Date Reported:	12-29-10
Lab ID#:	56922	Date Sampled:	12-28-10
Sample Matrix:	Soil	Date Received:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Chain of Custody:	10977

Parameter	Concentration (mg/Kg)
Total Chloride	40

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Trail Canyon 100 S**



Analyst



Review



Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Wash #4	Date Reported:	12-29-10
Lab ID#:	56923	Date Sampled:	12-28-10
Sample Matrix:	Soil	Date Received:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Chain of Custody:	10977

Parameter	Concentration (mg/Kg)
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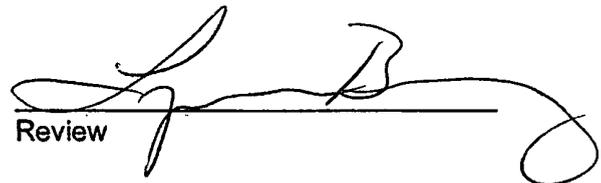
Total Chloride	110
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

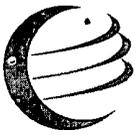
Comments: **Trail Canyon 100 S**



Analyst



Review



Client:	ConocoPhillips	Project #:	92115-1543
Sample ID:	Wash #6	Date Reported:	12-29-10
Lab ID#:	56924	Date Sampled:	12-28-10
Sample Matrix:	Soil	Date Received:	12-28-10
Preservative:	Cool	Date Analyzed:	12-29-10
Condition:	Intact	Chain of Custody:	10977

Parameter	Concentration (mg/Kg)
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Total Chloride

60

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Trail Canyon 100 S**



Analyst



Review

CHAIN OF CUSTODY RECORD RUSH 10977

Client: Conoco Phillips	Project Name / Location: Trail Canyon 100 S	ANALYSIS / PARAMETERS				
Client Address:	Sampler Name: DARIAN WILLIAMSON	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion
Client Phone No.:	Client No.: 92115-1543	FCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact			
						H ₂ O ₂	HCl	P ₂ O ₅															
Source	12/28/10	11:21	50922	Soil Solid Aqueous	1-4oz			X	X									X		✓	✓		
WASH # 4	↓	12:23	50923	Soil Solid Aqueous	↓			X	X									X		✓	✓		
WASH # 6	↓	13:24	50924	Soil Solid Aqueous	↓			X	X									X		✓	✓		
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			
				Soil Solid Aqueous																			

Relinquished by: (Signature) 	Date 12/28/10	Time 16:10	Received by: (Signature) 	Date 10/28/10	Time 11:10
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

RUSH

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