

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 August 8, 2011

Submit 1 Copy to appropriate District Office to
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Howell K 4C	Facility Type: Gas Well

Surface Owner BLM	Mineral Owner BLM (SF-078578-A)	API No. 30-045-30939
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LOCATION OF RELEASE

Unit Letter D	Section 17	Township 30N	Range 8W	Feet from the 660	North/South Line North	Feet from the 705	East/West Line West	County San Juan
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Latitude **36.81618** Longitude **107.70458**

NATURE OF RELEASE

Type of Release Condensate/Produced Water	Volume of Release Condensate - 119bbls Produced Water - 17bbls	Volume Recovered None
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 1/24/2013 at 9:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM (Mark Kelly) & OCD (Brandon Powell)	
By Whom? Crystal Tafoya	Date and Hour 1/24/2013 at 3:16pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

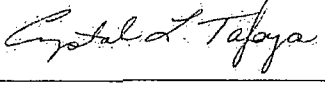
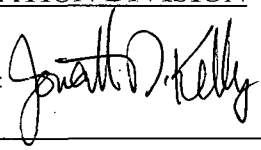
RCVD APR 18 '13

If a Watercourse was Impacted, Describe Fully.* N/A	OIL CONS. DIV. DIST. 3
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Describe Cause of Problem and Remedial Action Taken.*
The tank was being gauged when it was discovered no fluid was in the tank. A visual tank and seal inspection was done where a 2" hole on the bottom weld of the tank was discovered releasing 119bbls condensate and 17bbls of produced water. No free standing fluid was in the berm area and no amount of the release was recovered. The well was shut-in and is waiting on repair.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 0. Samples were collected and analytical results were above applicable NMOCD action levels. Excavation occurred and was 55' x 46' x 4.5' and 132 cubic yards of soil was transported to a third party landfarm. Confirmation sampling occurred. Analytical results for TPH was below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 5/21/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/16/13 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

NJK1314142433



April 8, 2013

Project Number 92115-2406

Ms. Crystal Tafoya
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 326-9837

RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE HOWELL K #4C (hBr) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Tafoya:

Enclosed please find the field notes and analytical results for confirmation sampling activities performed at the Howell K #4C (hBr) well site located in Section 17, Township 30 North, Range 8 West, San Juan County, New Mexico. The regulatory standards for the site were determined to be 5000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a horizontal distance to surface water greater than 1000 feet from the location, a depth to groundwater greater than 100 feet, and the well site not being located within a well head protection area, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Prior to Envirotech personnel's arrival on March 6, 2013, the area of the release had been excavated to approximately 33 feet by 46 feet by six (6) inches deep. Within the initial excavation, a second excavation was established. The dimensions of the second excavation was approximately 22 feet by 22 feet by 4.5 feet below ground surface (BGS); see enclosed *Field Notes* for details. Four (4) composite samples were collected from the second excavation. One (1) sample was collected from the initial excavation (Section 1). Three (3) samples were collected from the second excavation; one (1) from the north and east walls, one (1) from the south and west walls and one (1) from the bottom of the excavation; see enclosed *Field Notes* for sample locations. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All samples, except the sample collected from the south and west walls returned results below the regulatory standards for TPH. All samples returned results above the regulatory standards for organic vapors; see enclosed *Field Notes, Summary of Analytical Results, and Analytical Results*.

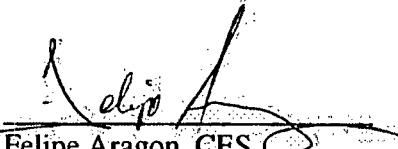
All four (4) samples were collected into four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory. The samples collected from Section 1, the north and east walls, and the bottom of the excavation were analyzed for benzene and total BTEX using USEPA Method 8021. The sample collected from the south and west walls was analyzed for TPH using USEPA Method 8015 and for benzene and total BTEX using USEPA Method 8021. All four (4) samples returned results that were below

the regulatory standard for benzene. The sample from the south and west walls returned results below regulatory standard for TPH, but above regulatory standard for total BTEX; see enclosed *Summary of Analytical Results* and *Analytical Results*. Due to sandstone, maximum extent of the excavation had been reached; Envirotech, Inc. recommended spraying potassium permanganate on the effected area, to remediate the contaminated sandstone, then re-sampling for closure. ConocoPhillips representative, Crystal Tafoya, determined that the best course of action was to allow the excavation to remain uncovered for approximately three (3) weeks to allow natural attenuation of the BTEX, and then re-sample for closure.

On March 28, 2013, Envirotech personnel returned to the Howell K #4C (hBr) well site to re-sample the excavation area. One (1) sample was collected from the south and west walls of the excavation; see enclosed *Field Notes*. The sample was collected in a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed *Summary of Analytical Results* and *Analytical Results*. Based on the above mentioned analytical results, Envirotech, Inc. recommends no further action in regards to this incident.

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


Respectfully submitted,
ENVIROTECH, INC.


Felipe Aragon, CES
Senior Environmental Field Technician
faragon@envirotech-inc.com

Enclosure(s): Field Notes
Summary of Analytical Results
Analytical Results

Cc: Client File Number 92115

Client: ConocoPhillips



envirotech
(800) 632-0919 (600) 363-1879
5796 U.S. Hwy 84, Farmington, NJ 07401

Project No: 72115-2400
COC No: 15265

FIELD REPORT: SPILL CLOSURE VERIFICATION

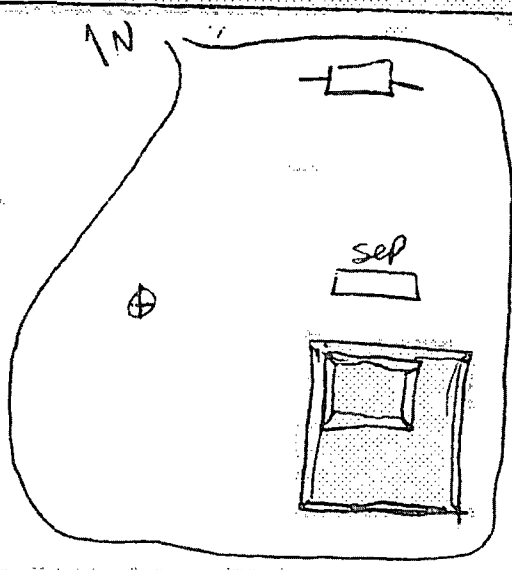
PAGE NO: 1 OF 1
DATE STARTED: 3-6-13
DATE FINISHED: 3-6-13
ENVIRONMENTAL SPECIALIST: F. Angen

LOCATION: NAME: Howell K WELL #: 4C
QUAD/UNIT: D SEC: 17 TWP: B N RANG: W PM: CNTY: SS ST:
QTR/FOOTAGE: CONTRACTOR: Marking
EXCAVATION APPROX: 22 FT. X 22 FT. X 4 5 FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: IEI REMEDIATION METHOD: Containment
LAND USE: Range LEASE: LAND OWNER:
CAUSE OF RELEASE: Tank overfill MATERIAL RELEASED: Condensate / Produced water
SPILL LOCATED APPROXIMATELY: 106° FT. 190° FROM W 11
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER:
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: Left crystal message w/ results @ 10:05
Relayed results to Eric on-site
S.W. = > 100'
GW = > 100'
No well head

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>2005 D</u>	<u>9:05</u>							
<u>Area #1</u>	<u>9:15</u>	<u>1</u>	<u>-</u>	<u>5</u>	<u>20</u>	<u>1</u>	<u>203</u>	
<u>North 3 feet</u>	<u>9:20</u>	<u>2</u>	<u>-</u>	<u>5</u>	<u>20</u>	<u>4</u>	<u>103</u>	<u>948</u>
<u>South 3 feet</u>	<u>9:25</u>	<u>3</u>	<u>-</u>	<u>5</u>	<u>20</u>	<u>4</u>	<u>1624</u>	<u>412</u>
<u>Bottom 2 feet</u>	<u>9:30</u>	<u>4</u>	<u>-</u>	<u>5</u>	<u>20</u>	<u>4</u>	<u>279</u>	<u>6516</u>

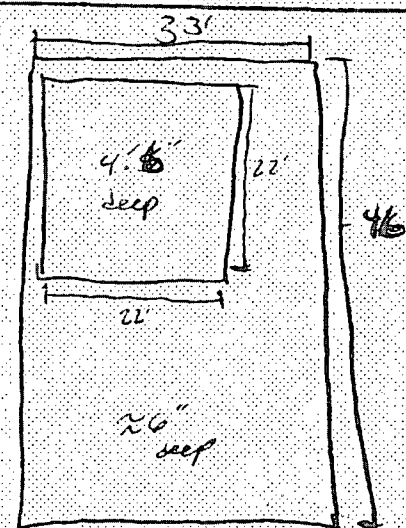
SPILL PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
<u>1</u>	<u>1294</u>
<u>2</u>	<u>1378</u>
<u>3</u>	<u>2286</u>
<u>4</u>	<u>1289</u>


SPILL PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
<u>1</u>	<u>8021</u>	
<u>2</u>	<u>8021</u>	
<u>3</u>	<u>8015/8021</u>	
<u>4</u>	<u>8021</u>	

TRAVEL NOTES: CA D

Client: COPC (hBr)	 envirotech (505) 632-0819 (800) 362-1676 5766 U.S. Hwy 60, Farmington, NE 87401	Project No: 92115-2406 COC No: 15345
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92115-2406

15345

PAGE NO: 1 OF 1

DATE STARTED: 3/28/13

DATE FINISHED: 3/29/13

ENVIRONMENTAL

SPECIALIST: T. McIntosh

DISPOSAL FACILITY:

REMEDIATION METHOD:

LAND USE:

LEASE:

LAND OWNER:

CAUSE OF RELEASE:

MATERIAL RELEASED:

SPILL LOCATED APPROXIMATELY:

FT.

FROM

DEPTH TO GROUNDWATER:

NEAREST WATER SOURCE:

NEAREST SURFACE WATER:

NMOC D RANKING SCORE:

NMOCD TPH CLOSURE STD: 5000

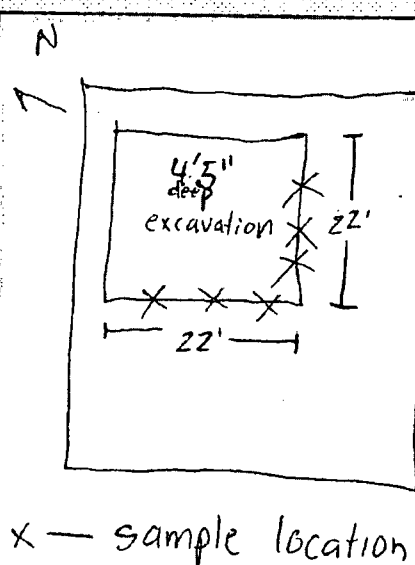
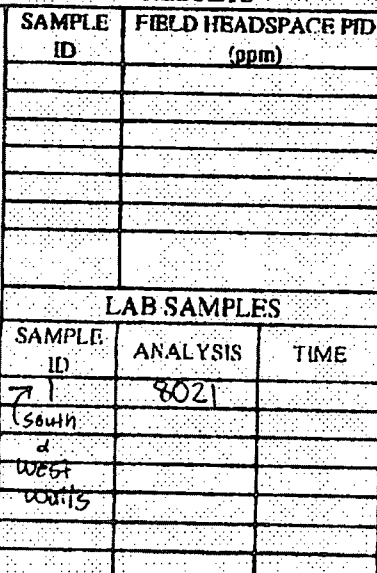
PPM

SOIL AND EXCAVATION DESCRIPTION:

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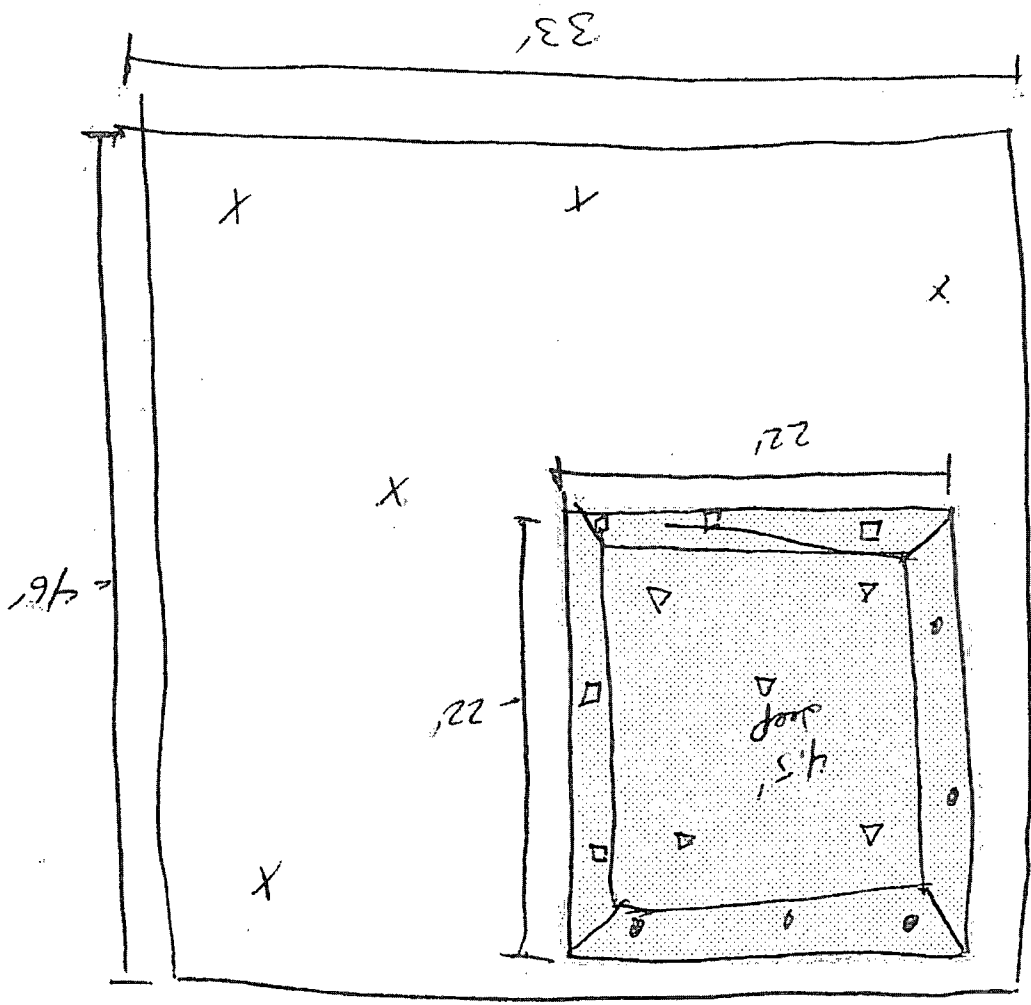
OVM RESULTS

SPILL PROFILE



TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____

X = Section #1 comp
 ● = North E cut
 □ = South E wall
 △ = Excav. bottom



100' -
 100' -

9215-2406
 House K #42

Table 1, Summary of Analytical Results

ConocoPhillips

Howell K #4C (hBr)

Confirmation Sampling

Project Number 92115-2406

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	Chlorides (ppm)	USEPA Method 8021	
							Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	5000	5000	NA	10	50
3/6/2013	Area #1	1	1944	948	NS	NS	0.0762	25.1
3/6/2013	North & East Walls	2	1378	412	NS	NS	ND	6.1
3/6/2013	South & West Walls	3	2286	6520	1430	NS	1.05	215
3/6/2013	Bottom of Excavation	4	1289	1120	NS	NS	0.184	34.1
3/28/2013	South & West Walls	1	NS	NS	NS	NS	ND	0.872

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled *ND - Parameter not detected



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2406
Sample No.:	1	Date Reported:	3/11/2013
Sample ID:	Section #1 Composite	Date Sampled:	3/6/2013
Sample Matrix:	Soil	Date Analyzed:	3/6/2013
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	948	5.0
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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: **Howell K #4C (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Felipe Aragon
Printed


Review

Kyle Cossum, Staff Scientist
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 2
Sample ID: North and East
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2406
Date Reported: 3/11/2013
Date Sampled: 3/6/2013
Date Analyzed: 3/6/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------


Total Petroleum Hydrocarbons	412	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.

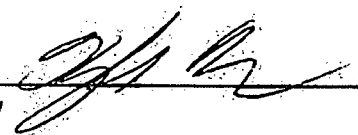
Comments: **Howell K #4C (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Felipe Aragon
Printed



Review

Kyle Cossum, Staff Scientist
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 3
Sample ID: South and West
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2406
Date Reported: 3/11/2013
Date Sampled: 3/6/2013
Date Analyzed: 3/6/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	6,520	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: **Howell K #4C (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Analyst

Felipe Aragon

Printed

Review

Kyle Cossum, Staff Scientist

Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2406
Sample No.:	4	Date Reported:	3/11/2013
Sample ID:	Excavation Bottom	Date Sampled:	3/6/2013
Sample Matrix:	Soil	Date Analyzed:	3/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	1,120	5.0
------------------------------	-------	-----

ND = Parameter not detected at the stated detection limit.

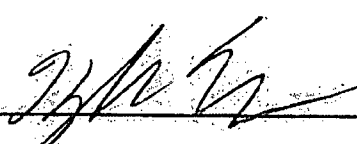
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Howell K #4C (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Felipe Aragon
Printed


Review

Kyle Cossum, Staff Scientist
Printed




CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 6-Mar-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	203
	200	
	500	
	1000	

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



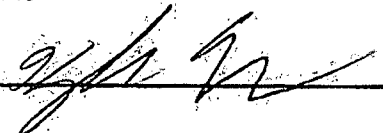
Analyst

3/11/2013

Date

Felipe Aragon

Print Name



Review

3/11/2013

Date

Kyle Cossum, Staff Scientist

Print Name



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 15265

Samples Received: 3/6/2013 11:55:00AM

Job Number: 92115-2406

Work Order: P303013

Project Name/Location: Confirmation
Sampling/Howell K #4C

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/8/13

Tim Cain, Laboratory Manager

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Confirmation Sampling/Howell K #4C
Project Number: 92115-2406
Project Manager: Felipe Aragon

Reported:
08-Mar-13 10:17

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Area #1	P303013-01A	Soil	03/06/13	03/06/13	Glass Jar, 4 oz.
North & East Walls	P303013-02A	Soil	03/06/13	03/06/13	Glass Jar, 4 oz.
South & West Walls	P303013-03A	Soil	03/06/13	03/06/13	Glass Jar, 4 oz.
Bottom of Excavation	P303013-04A	Soil	03/06/13	03/06/13	Glass Jar, 4 oz.

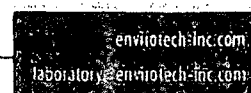
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Confirmation Sampling/Howell K #4C
Project Number: 92115-2406
Project Manager: Felipe Aragon

Reported:
08-Mar-13 10:17

Area #1
P303013-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	76.2	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Toluene	2320	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Ethylbenzene	1520	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
p,m-Xylene	17200	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
o-Xylene	4010	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Total BTEX	25100	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Surrogate: Bromochlorobenzene		112 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		93.4 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B		
Surrogate: Fluorobenzene		101 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B		

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Confirmation Sampling/Howell K #4C Project Number: 92115-2406 Project Manager: Felipe Aragon	Reported: 08-Mar-13 10:17
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North & East Walls

P303013-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Toluene	535	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Ethylbenzene	366	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
p,m-Xylene	4270	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
o-Xylene	932	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Total BTEX	6100	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	80-120		1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	80-120		1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		96.6 %	80-120		1310016	07-Mar-13	07-Mar-13	EPA 8021B	

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Confirmation Sampling/Howell K #4C Project Number: 92115-2406 Project Manager: Felipe Aragon	Reported: 08-Mar-13 10:17
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**South & West Walls
P303013-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	1050	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Toluene	42600	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Ethylbenzene	15100	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
p,m-Xylene	128000	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
o-Xylene	28700	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Total BTEX	215000	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		106 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.7 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		92.5 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	1290	5.0	mg/kg	1.000	1310014	06-Mar-13	07-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	138	5.0	mg/kg	1.000	1310014	06-Mar-13	07-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	1430	5.0	mg/kg	1.000	1310014	06-Mar-13	07-Mar-13	EPA 8015D	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Confirmation Sampling/Howell K #4C
Project Number: 92115-2406
Project Manager: Felipe Aragon

Reported:
08-Mar-13 10:17

Bottom of Excavation
P303013-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	184	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Toluene	3630	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Ethylbenzene	2060	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
p,m-Xylene	23700	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
o-Xylene	4590	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Total BTEX	34100	50.0	ug/kg	50	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		112 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		97.1 %		80-120	1310016	07-Mar-13	07-Mar-13	EPA 8021B	

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ConocoPhillips
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Project Name: Confirmation Sampling/Howell K #4C
Project Number: 92115-2406
Project Manager: Felipe Aragon

Reported:
08-Mar-13 10:17

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1310016 - Purge and Trap EPA 5030A

Blank (1310016-BLK1)

Prepared & Analyzed: 07-Mar-13

Benzene	ND	50.0	ug/kg							
Toluene	ND	50.0	"							
Ethylbenzene	ND	50.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	50.0	"							
Total BTEX	ND	50.0	"							
Surrogate: Bromochlorobenzene	2410		"	2500		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	2470		"	2500		98.8	80-120			
Surrogate: Fluorobenzene	2460		"	2500		98.3	80-120			

Duplicate (1310016-DUP1)

Source: P303013-01

Prepared & Analyzed: 07-Mar-13

Benzene	91.7	50.0	ug/kg		76.2			18.4	30	
Toluene	2400	50.0	"		2320			3.29	30	
Ethylbenzene	1570	50.0	"		1520			3.32	30	
p,m-Xylene	17700	50.0	"		17200			3.21	30	
o-Xylene	3850	50.0	"		4010			4.09	30	
Surrogate: Bromochlorobenzene	2830		"	2500		113	80-120			
Surrogate: 1,4-Difluorobenzene	2380		"	2500		95.3	80-120			
Surrogate: Fluorobenzene	2460		"	2500		98.4	80-120			

Matrix Spike (1310016-MS1)

Source: P303013-01

Prepared & Analyzed: 07-Mar-13

Benzene	2600	50.0	ug/kg	2500	76.2	101	39-150			
Toluene	4760	50.0	"	2500	2320	97.6	46-148			
Ethylbenzene	4040	50.0	"	2500	1520	101	32-160			
p,m-Xylene	21400	50.0	"	5000	17200	84.8	46-148			
o-Xylene	6280	50.0	"	2500	4010	90.9	46-148			
Surrogate: Bromochlorobenzene	2850		"	2500		114	80-120			
Surrogate: 1,4-Difluorobenzene	2230		"	2500		89.2	80-120			
Surrogate: Fluorobenzene	2420		"	2500		96.8	80-120			

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Confirmation Sampling/Howell K #4C Project Number: 92115-2406 Project Manager: Felipe Aragon	Reported: 08-Mar-13 10:17
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1310014 - GRO/DRO Extraction EPA 3550C										
Blank (1310014-BLK1)				Prepared: 06-Mar-13 Analyzed: 07-Mar-13						
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.0	"							
GRO and DRO Combined Fractions	ND	5.0	"							
Duplicate (1310014-DUP1)				Source: P303013-03 Prepared: 06-Mar-13 Analyzed: 07-Mar-13						
Gasoline Range Organics (C6-C10)	1210	5.0	mg/kg		1290			6.15	30	
Diesel Range Organics (C10-C28)	122	5.0	"		138			12.6	30	
Matrix Spike (1310014-MS1)				Source: P303013-03 Prepared: 06-Mar-13 Analyzed: 07-Mar-13						
Gasoline Range Organics (C6-C10)	1560		mg/L	250	1290	106	75-125			
Diesel Range Organics (C10-C28)	352		"	250	138	85.6	75-125			

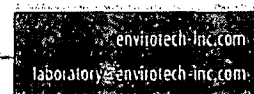
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Confirmation Sampling/Howell K #4C
Project Number: 92115-2406
Project Manager: Felipe Aragon

Reported:
08-Mar-13 10:17

Notes and Definitions

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

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laboratory@envirotech-inc.com

15265

CHAIN OF CUSTODY RECORD

Page 10 of 10

Rush

Client: <i>Conoco 1.11.15</i>			Project Name / Location: <i>Conf. on Sampling / Howell K</i>			#4C														ANALYSIS / PARAMETERS	
Email results to: <i>F. Aragon</i>			Sampler Name: <i>F. Aragon</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.:			Client No. <i>92115-2406</i>																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative																
<i>Area #1</i>	<i>3-6-13</i>	<i>9:15</i>	<i>P303013-01</i>	<i>1-402</i>			<i>X</i>		<i>X</i>									<i>✓</i>	<i>✓</i>		
<i>North & East Walls</i>	<i>I</i>	<i>9:20</i>	<i>P303013-02</i>	<i>I</i>					<i>X</i>									<i>✓</i>	<i>✓</i>		
<i>South & West Walls</i>	<i>I</i>	<i>9:25</i>	<i>P303013-03</i>	<i>I</i>					<i>X</i>									<i>✓</i>	<i>✓</i>		
<i>Bottom of Excavation</i>	<i>I</i>	<i>9:30</i>	<i>P303013-04</i>	<i>I</i>					<i>X</i>									<i>✓</i>	<i>✓</i>		
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time										
				<i>3-6-13</i>	<i>11:55</i>					<i>3/6/13</i>	<i>11:55</i>										
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>															
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					
																					
<i>Rush</i> 5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																					



Analytical Report

Report Summary

Client: ConocoPhillips
Chain Of Custody Number: 15345
Samples Received: 3/28/2013 1:45:00PM
Job Number: 92115-2406
Work Order: P303101
Project Name/Location: Howell K-#4C
Confirmation Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/29/13

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: Howell K #4C Confirmation Sampling
Project Number: 92115-2406
Project Manager: Tiffany McIntosh

Reported:
29-Mar-13 17:46

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South and West Walls	P303101-01A	Soil	03/28/13	03/28/13	Glass Jar, 4 oz.

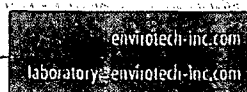
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Howell K #4C Confirmation Sampling
Project Number: 92115-2406
Project Manager: Tiffany McIntosh

Reported:
29-Mar-13 17:46

South and West Walls
P303101-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Toluene	95.0	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Ethylbenzene	ND	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
p,m-Xylene	605	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
o-Xylene	172	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Total BTEX	872	50.1	ug/L	1	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		97.2 %		80-120	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %		80-120	1313036	28-Mar-13	29-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		96.6 %		80-120	1313036	28-Mar-13	29-Mar-13	EPA 8021B	

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Howell K #4C Confirmation Sampling Project Number: 92115-2406 Project Manager: Tiffany McIntosh	Reported: 29-Mar-13 17:46
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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1313036 - Purge and Trap EPA 5030A

Blank (1313036-BLK1)

Prepared: 28-Mar-13 Analyzed: 29-Mar-13

Benzene	ND	50.1	ug/L							
Toluene	ND	50.1	"							
Ethylbenzene	ND	50.1	"							
p,m-Xylene	ND	50.1	"							
o-Xylene	ND	50.1	"							
Total BTEX	ND	50.1	"							
Surrogate: Bromochlorobenzene	49.7		"	50.0		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	51.1		"	50.0		102	80-120			
Surrogate: Fluorobenzene	49.7		"	50.0		99.3	80-120			

Duplicate (1313036-DUP1)

Source: P303101-01

Prepared: 28-Mar-13 Analyzed: 29-Mar-13

Benzene	ND	50.0	ug/L		ND				30	
Toluene	74.2	50.0	"		95.0			24.6	30	
Ethylbenzene	ND	50.0	"		ND				30	
p,m-Xylene	493	50.0	"		605			20.2	30	
o-Xylene	130	50.0	"		172			28.4	30	
Surrogate: Bromochlorobenzene	48.6		"	50.0		97.1	80-120			
Surrogate: 1,4-Difluorobenzene	48.6		"	50.0		97.2	80-120			
Surrogate: Fluorobenzene	48.6		"	50.0		97.2	80-120			

Matrix Spike (1313036-MS1)

Source: P303101-01

Prepared: 28-Mar-13 Analyzed: 29-Mar-13

Benzene	50.0		ug/L	50.0	0.26	99.4	39-150			
Toluene	50.1		"	50.0	1.90	96.5	46-148			
Ethylbenzene	49.3		"	50.0	0.99	96.6	32-160			
p,m-Xylene	104		"	100	12.1	91.7	46-148			
o-Xylene	50.4		"	50.0	3.45	93.8	46-148			
Surrogate: Bromochlorobenzene	47.5		"	50.0		95.1	80-120			
Surrogate: 1,4-Difluorobenzene	48.2		"	50.0		96.5	80-120			
Surrogate: Fluorobenzene	48.5		"	50.0		97.0	80-120			

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Howell K #4C Confirmation Sampling
Project Number: 92115-2406
Project Manager: Tiffany McIntosh

Reported:
29-Mar-13 17:46

Notes and Definitions

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

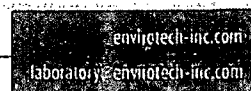
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Page 6 of 6

Client:			Project Name / Location:			ANALYSIS / PARAMETERS														
Email results to:			Sampler Name:			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FIC	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No.:																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative															
					HgCl ₂	HCl	COD													
South and west walls	3/28/13	1145	P303101-01	1-4oz jar			X		X										Y	Y
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time									
Tiffany McIntosh				3/28/13	1345	Dene O'Brien				3/28/13	1345									
Relinquished by: (Signature)						Received by: (Signature)														
Sample Matrix																				
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				
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