

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

30-045-28039

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403	
Facility Name San Juan 32-9 Unit 297	Facility Type Gas Well API#3004528039	
Surface Owner Federal	Mineral Owner Federal	Lease No. SF-078507

LOCATION OF RELEASE

Unit Letter K	Section 35	Township 32N	Range 10W	Feet from the 1950'	North/South Line South	Feet from the 1330'	East/West Line West	County Rio Arriba
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Latitude 36.93968° N Longitude -107.85687° W

NATURE OF RELEASE

Type of Release – Unknown	Volume of Release – Unknown	Volume Recovered –
Source of Release: Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/21/2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* **Below Grade Tank Closure.**

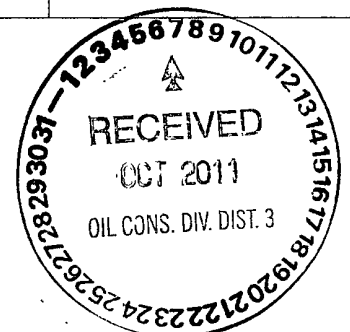
Describe Area Affected and Cleanup Action Taken.* **The sample returned results below the regulatory standards for Benzene, BTEX and Chlorides but above the regulatory standard of 100 ppm for TPH (184 ppm) using USEPA Method 418.1, confirming a release. However, as the closure standard for TPH at this site is 5000 ppm, no further action is required.**

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>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>[Signature]</i>	
Title: Environmental Consultant	Approval Date: <i>10/11/11</i>	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/1/2011	Phone: 505-599-3403	

* Attach Additional Sheets If Necessary

nJK1128655877





September 27, 2011

Project Number 92115-1846

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

Phone: (505) 599-3403

**RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE SAN JUAN 32-9 #297 (hBr)
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

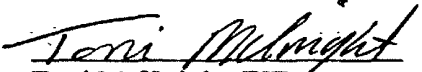
Dear Ms. Harrington:

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the San Juan 32-9 #297 (hBr) well site located in Section 35, Township 32 North, Range 10 West, San Juan County, New Mexico. Prior to Envirotech's arrival on July 21, 2011, the BGT had been removed. One (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. Additionally, the sample was placed into 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 BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides but above the regulatory standard of 100 parts per million (ppm) TPH using USEPA Method 418.1, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 5,000 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water being greater than 1,000 feet and depth to groundwater greater than 100 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standards for TPH using USEPA Method 418.1; 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.


Toni McKnight, EIT
Environmental Project Manager
Tmcknight@envirotech-inc.com

Enclosures: Analytical Results
Field Notes

Cc: Client File 92115

PAGE NO: <u>1</u> OF <u>1</u> <u>92165-1846</u> DATE STARTED: <u>July 21, 2011</u> DATE FINISHED: <u>July 21, 2011</u>	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>T. McWhright</u> LAT: _____ LONG: _____
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FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>SANTUAN 32-9</u> WELL #: <u>297</u> TEMP PIT: _____ PERMANENT PIT: _____ BGT: <u>X</u>
LEGAL ADD: UNIT: <u>NE/6W</u> SEC: <u>35</u> TWP: <u>32N</u> RNG: <u>10W</u> PM: <u>NM</u>
QTR/FOOTAGE: <u>1950' FSL & 1330' FNL</u> CNTY: <u>SANTUAN</u> ST: <u>NEW MEXICO</u>

EXCAVATION APPROX: _____ FT. X _____ FT. X _____ FT. DEEP CUBIC YARDAGE: _____
DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____
LAND OWNER: <u>MA</u> API: <u>30-045-078507</u> BGT / PIT VOLUME: _____
CONSTRUCTION MATERIAL: <u>metal</u> DOUBLE-WALLED, WITH LEAK DETECTION: _____

LOCATION APPROXIMATELY: <u>100</u> FT. <u>340°</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>7100 Ft</u>

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg
TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg
<u>X</u> PERMANENT PIT OR BGT BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

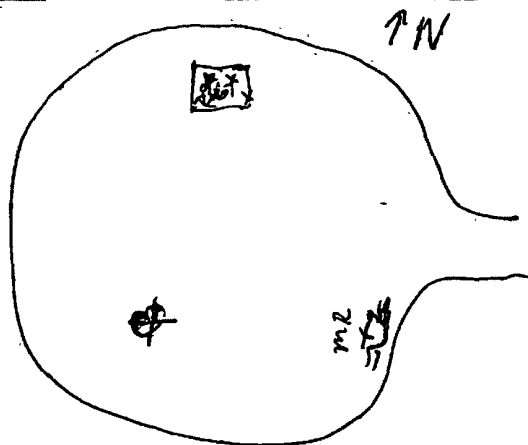
FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
11:28	200 STD					199	
11:31	5pt Composite	1	5	20	4	46	184
		2					
		3					
		4					
		5					
		6					

PERIMETER

FIELD CHLORIDES RESULTS

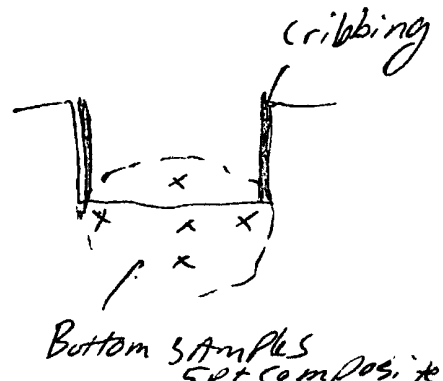
PROFILE



SAMPLE ID	READING	CALC. (mg/kg)
1	0.4	< 28

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
1	0.00



LAB SAMPLES

NOTES:

SAMPLE ID	ANALYSIS	RESULTS
1	BENZENE	
1	BTEX	
1	GRO & DRO	
1	CHLORIDES	

WORKORDER #

WHO ORDERED

Client: Conoco Phillips 92115-1846	 envirotech (505) 832-0815 (800) 362-1879 6798 U.S. Hwy 64, Farmington, NM 87401	Location No: C.O.C. No:
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FIELD REPORT: SPILL CLOSURE VERIFICATION	PAGE NO: <u>1</u> OF <u>1</u>
LOCATION: NAME: <u>SAN JUAN 32-9</u> WELL #: <u>297</u>	DATE STARTED: <u>July 21, 2011</u>
QUAD/UNIT: <u>NE/5W</u> SEC: <u>35</u> TWP: <u>32N</u> RNG: <u>10W</u> PM: <u>Nm</u> CNTY: <u>SJ</u> ST: <u>Nm</u>	DATE FINISHED: <u>July 21, 2011</u>
QTR/FOOTAGE: <u>1950' FSL & 1330' FLL</u> CONTRACTOR: <u>Sierra Oilfield</u>	ENVIRONMENTAL SPECIALIST: <u>T. McKnight</u>

EXCAVATION APPROX: <u> </u> FT. X <u> </u> FT. X <u> </u> FT. DEEP CUBIC YARDAGE: <u> </u>
DISPOSAL FACILITY: <u> </u> REMEDIATION METHOD: <u> </u>
LAND USE: <u>PASTURE</u> LEASE: <u>5F-076507</u> LAND OWNER: <u> </u>
CAUSE OF RELEASE: <u>BGT</u> MATERIAL RELEASED: <u>Produced Water</u>

SPILL LOCATED APPROXIMATELY: <u>100</u> FT. <u>348"</u> FROM <u>Well head</u>
DEPTH TO GROUNDWATER: <u>7100'</u> NEAREST WATER SOURCE: <u>71000'</u> NEAREST SURFACE WATER: <u>21100'</u>
NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION: <u>API - 30-045-29039</u>

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
STD 200	11:28	—	—	—	—	—	199	—
5pt Composite	11:31	1	1	5	20	4	46	184

SPILL PERIMETER	OVM RESULTS	SPILL PROFILE																												
See Below GRADE TANK closure sheet	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr><td>1</td><td>0.0</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1	0.0																	See Below grade tank closure sheet								
	SAMPLE ID	FIELD HEADSPACE PID (ppm)																												
	1	0.0																												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">LAB SAMPLES</th></tr> <tr> <th>SAMPLE ID</th><th>ANALYSIS</th><th>TIME</th></tr> <tr> <td>1</td><td>8021/chlorides</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	1	8021/chlorides																						
LAB SAMPLES																														
SAMPLE ID	ANALYSIS	TIME																												
1	8021/chlorides																													

TRAVEL NOTES: <u> </u> CALLED OUT: <u>for 11:00</u> ONSITE: <u>10:45 - 11:45</u>



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 1
Sample ID: 5 Pt Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1660
Date Reported: 8/4/2011
Date Sampled: 7/21/2011
Date Analyzed: 7/21/2011
Analysis Needed: TPH-418.1

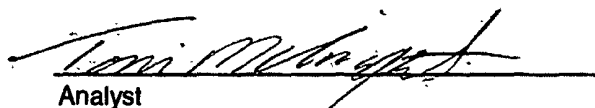
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	184	5.0

ND = Parameter not detected at the stated detection limit.

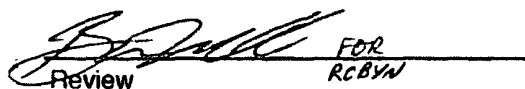
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: San Juan 32-9 #297 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review FOR RCBYJ

Robyn Heidbrier, EIT
Printed

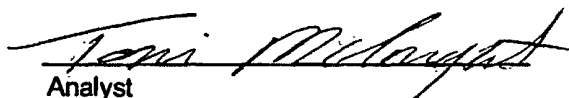


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 21-Jul-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	199
	200	
	500	
	1000	

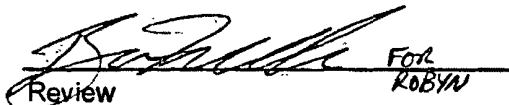
The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst

Toni McKnight, EIT

Print Name

8/4/2011
Date


Review FOR ROBYN

Robyn Heidbrier, EIT

Print Name

8/4/2011
Date



Field Chloride

Client: ConocoPhillips
Sample No.: 1
Sample ID: 5 pt Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

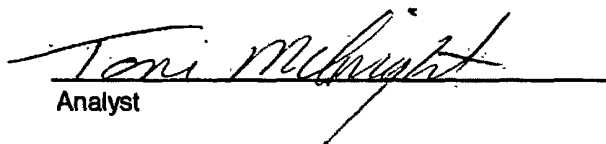
Project #: 92115-1846
Date Reported: 8/4/2011
Date Sampled: 7/21/2011
Date Analyzed: 7/21/2011
Analysis Needed: Chloride

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

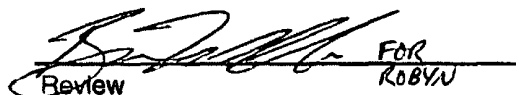
ND = Parameter not detected at the stated detection limit.

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

Comments: SanJuan 32-9 #297 (hBr)


Analyst

Toni McKnight, EIT
Printed


Review FOR ROBYN

Robyn Heidbrier, EIT
Printed

Client:	ConocoPhillips	Project #:	92115-1846
Sample ID:	5 Pt Composite	Date Reported:	07-22-11
Laboratory Number:	59032	Date Sampled:	07-21-11
Chain of Custody:	12230	Date Received:	07-21-11
Sample Matrix:	Soil	Date Analyzed:	07-22-11
Preservative:	Cool	Date Extracted:	07-21-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

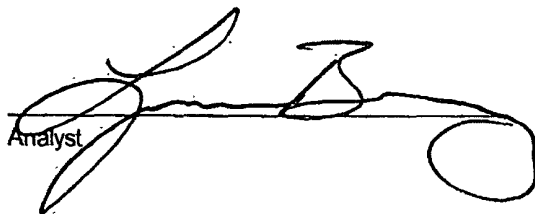
ND - Parameter not detected at the stated detection limit.

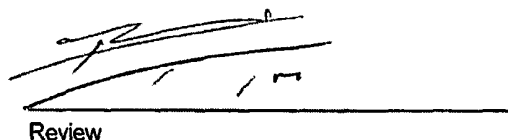
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	85.2 %
	1,4-difluorobenzene	98.6 %
	Bromochlorobenzene	84.1 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: San Juan 32-9 #297 (hBr)

Analyst 

Review 

Client:	N/A	Project #:	N/A
Sample ID:	0722BBLK QA/QC	Date Reported:	07-22-11
Laboratory Number:	59032	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	3.1628E+006	3.1692E+006	0.2%	ND	0.1
Toluene	3.2106E+006	3.2170E+006	0.2%	ND	0.1
Ethylbenzene	2.8510E+006	2.8567E+006	0.2%	ND	0.1
p,m-Xylene	7.7644E+006	7.7800E+006	0.2%	ND	0.1
o-Xylene	2.6413E+006	2.6466E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	506	101%	39 - 150
Toluene	ND	500	505	101%	46 - 148
Ethylbenzene	ND	500	499	100%	32 - 160
p,m-Xylene	ND	1000	974	97.4%	46 - 148
o-Xylene	ND	500	497	99.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 59032, 59034-59035, 59037, 59041

Analyst

Review


Client:	ConocoPhillips	Project #:	92115-1846
Sample ID:	5 Pt Composite	Date Reported:	07/22/11
Lab ID#:	59032	Date Sampled:	07/21/11
Sample Matrix:	Soil	Date Received:	07/21/11
Preservative:	Cool	Date Analyzed:	07/22/11
Condition:	Intact	Chain of Custody:	12230

Parameter**Concentration (mg/Kg)****Total Chloride****ND****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:**San Juan 32-9 #297 (hBr)**
Analyst
Review

CHAIN OF CUSTODY RECORD **KULS#** 2230

Client: Conoco Phillips			Project Name / Location: SAN JUAN 32-9 #297 (HBr)			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: T. McKnight			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact
Client Phone No.:			Client No.: 92115-1846																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl Cu ²⁺															
SPT Composite	7/21/11	11:31	59032	Soil Solid	1/402															Y	Y
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
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				Soil Solid	Sludge Aqueous																
Relinquished by: (Signature) T. McKnight			Date 7/21/11	Time 13:00	Received by: (Signature) Randi Vazquez			Date 7/21/11	Time 13:00												
Relinquished by: (Signature)					Received by: (Signature)																
Relinquished by: (Signature)					Received by: (Signature)																
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>*RUSH*</div> <div>  <div> envirotech Analytical Laboratory </div> </div> </div> <div style="text-align: center; margin-top: 10px;"> 5796 US Highway 64 • Farmington, NM 87401 • 505-632-0815 • lab@envirotech-inc.com </div>																					