

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

OPERATOR

☐ 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 Ross Federal 1M	Facility Type Gas Well API# 3004529744
Surface Owner Federal	Mineral Owner Federal Lease No. NMSF-080113

LOCATION OF RELEASE

Unit Letter P	Section 23	Township 30N	Range 11W	Feet from the 915'	North/South Line South	Feet from the 1185'	East/West Line East	County San Juan
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Latitude **36.79292° N** Longitude **-107.95506° 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 1/11/2011
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.*		

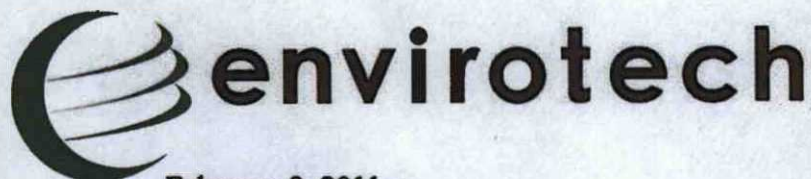
Describe Cause of Problem and Remedial Action Taken.* **Below grade tank closure activities.**

Describe Area Affected and Cleanup Action Taken.* **The below grade tank sample results were above the regulatory standard by USEPA method 418.1 for TPH, confirming a release. The regulatory standard for closure at this site was determined to be 1,000 ppm; therefore 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>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>Jonathan D. Kelly</i>	
Title: Environmental Consultant	Approval Date: <i>10/20/2015</i>	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval: <i>BGT Closure C-141 required for BGT Closure, Please submit within 60 days. Notification sent to COPC Regulatory 10/20/2015.</i>	Attached <input type="checkbox"/>
Date: 4/27/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary



February 9, 2011

Project Number 92115-1555

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

Phone: (505) 599-3403

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE ROSS FEDERAL 1M (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 Ross Federal 1M (hBr) well site located in Section 23, Township 30 North, Range 11 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on January 11, 2011, 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. The sample returned results above the regulatory standards for TPH, confirming a release had occurred.

A brief site assessment was conducted and it was determined that the distance to surface water was between 200 and 1000 feet. Pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases, the regulatory standards were determined to be 1000 ppm TPH and 100 ppm organic vapors. 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 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.

Crystal Delgai
Environmental Field Technician
CDelgai@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 92115

AGE NO: <u>1</u> OF <u>2</u> DATE STARTED: <u>1-11-11</u> DATE FINISHED: <u>1-11-11</u>	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>C. DeLeon</u> LAT: <u>36.79286183</u> LONG: <u>-107.955618</u>
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FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>ROSS FEDERAL</u>	WELL #: <u>1M</u>	TEMP PIT: <u> </u>	PERMANENT PIT: <u> </u>	BGT: <u> </u>
LEGAL ADD: UNIT: <u>SP</u> SEC: <u>23</u> TWP: <u>30N</u> RNG: <u>11W</u> PM: <u>NMPM</u>				
TR/FOOTAGE: <u>1185' E 915' S</u> CNTY: <u>San Juan</u> ST: <u>NM</u>				

XCAVATION APPROX: <u>12</u> FT. X <u>12</u> FT. X <u>2</u> FT. DEEP CUBIC YARDAGE: <u> </u>		
DISPOSAL FACILITY: <u> </u>	REMEDICATION METHOD: <u> </u>	
AND OWNER: <u>Federal</u>	API: <u>300-452-9744</u>	BGT / PIT VOLUME: <u> </u>
CONSTRUCTION MATERIAL: <u> </u>	DOUBLE-WALLED, WITH LEAK DETECTION: <u> </u>	
LOCATION APPROXIMATELY: <u>88</u> FT. <u>1250</u> FROM WELLHEAD		
DEPTH TO GROUNDWATER: <u>>130'</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	
<input checked="" type="checkbox"/> PERMANENT PIT OR BGT BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg	

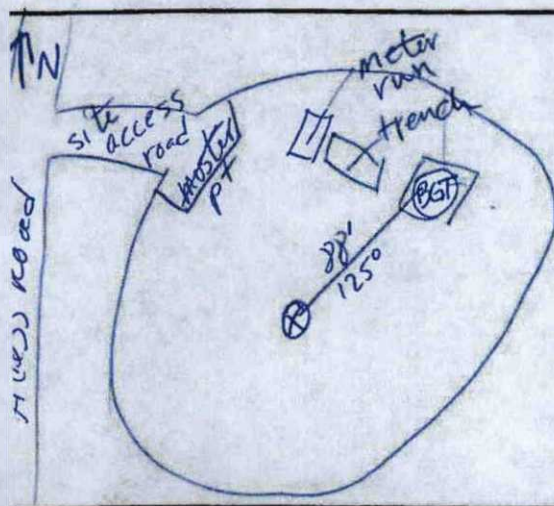
FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
12:25	200 STD		-	-	-	211	
12:40	Bottom	1	5	20	4	59	236
		2					
		3					
		4					
		5					
		6					

PERIMETER

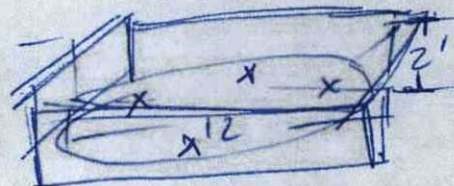
FIELD CHLORIDES RESULTS

PROFILE



SAMPLE ID	READING	CALC. (mg/kg)
1	0.4	<33

PID RESULTS	
SAMPLE ID	RESULTS (mg/kg)
1	ND



LAB SAMPLES			NOTES:
SAMPLE ID	ANALYSIS	RESULTS	
	BENZENE		
	BTEX		
	GRO & DRO		
	CHLORIDES		
<div style="display: flex; justify-content: space-between;"> WORKORDER # WHO ORDERED </div>			

C.O.C. No: 92115-1555

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 2 OF 2

DATE STARTED: 1-11-11

DATE FINISHED: 1-11-11

LOCATION: NAME: Ross Federal WELL #: 1W
QUAD/UNIT: P SEC: 23 TWP: 30N RNG: 11W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1185' E. 915' 3 CONTRACTOR:

ENVIRONMENTAL
SPECIALIST: *CD*

EXCAVATION APPROX: 12 FT. X 12 FT. X 2 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: N/A

REMEDIATION METHOD:

LAND USE: Forest

LEASE:

LAND OWNER:

CAUSE OF RELEASE: B6t

MATERIAL RELEASED: (7)

SPILL LOCATED APPROXIMATELY: 88 FT. 125° FROM WH

DEPTH TO GROUNDWATER: > 130' NEAREST WATER SOURCE: 2250' / A NEAREST SURFACE WATER: > 250'

NMOC Ranking Score: 10 NMOC TPH Closure Std: 1000 PPM

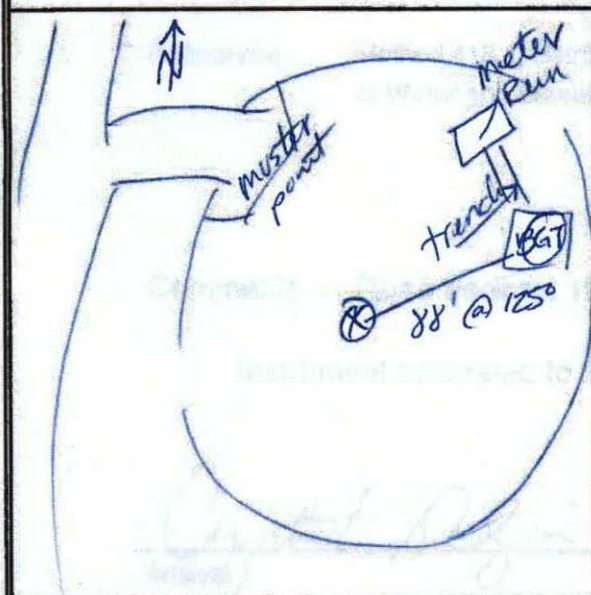
SOIL AND EXCAVATION DESCRIPTION:

[illegible]

SPILL PERIMETER

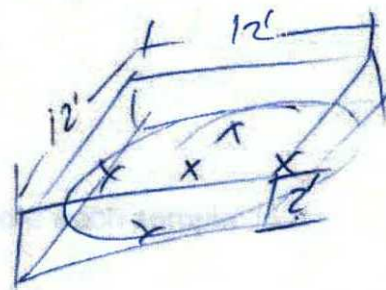
OVM RESULTS

SPILL PROFILE

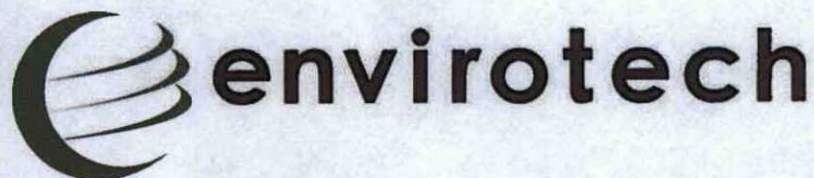


SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	0.4 = < 33 pp
1	ND

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 1
Sample ID: Bottom
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1555
Date Reported: 1/18/2011
Date Sampled: 1/11/2011
Date Analyzed: 1/11/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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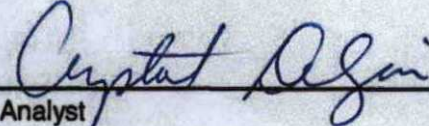
Total Petroleum Hydrocarbons	236	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Ross Federal 1M (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Crystal Delgai, FT
Printed


Review

Barian Williamson, FT
Printed

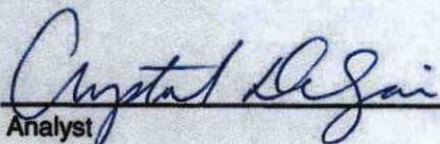


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 11-Jan-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	211
	200	
	500	
	1000	

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


Analyst

1/18/2011
Date

Crystal Delgai, FT
Print Name


Review

1/18/2011
Date

Barian Williamson, FT
Print Name



Field Chloride

Client:	ConocoPhillips	Project #:	92115-1555
Sample No.:	1	Date Reported:	1/18/2011
Sample ID:	Bottom	Date Sampled:	1/11/2011
Sample Matrix:	Soil	Date Analyzed:	1/12/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

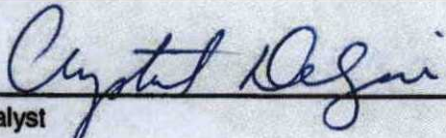
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Field Chloride	ND	33.0
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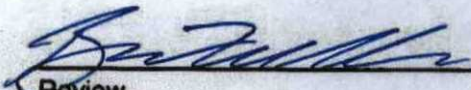
ND = Parameter not detected at the stated detection limit.

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

Comments: **Ross Federal 1M (hBr)**


Analyst

Crystal Delgai, FT
Printed


Review

Barian Williamson, FT
Printed



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1555
Sample ID:	Bottom	Date Reported:	01-12-11
Laboratory Number:	56970	Date Sampled:	01-11-11
Chain of Custody:	11005	Date Received:	01-11-11
Sample Matrix:	Soil	Date Analyzed:	01-12-11
Preservative:	Cool	Date Extracted:	01-11-11
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	

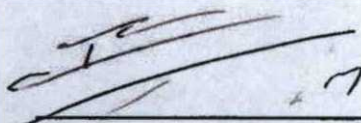
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.7 %
	1,4-difluorobenzene	93.5 %
	Bromochlorobenzene	104 %

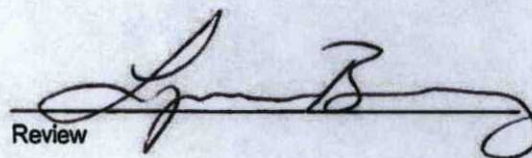
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Ross Federal 1M (hBr)



Analyst



Review

Client:	N/A	Project #:	N/A
Sample ID:	0112BBLK QA/QC	Date Reported:	01-12-11
Laboratory Number:	56970	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-12-11
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	1.2457E+005	1.2482E+005	0.2%	ND	0.1
Toluene	1.3582E+005	1.3608E+005	0.2%	ND	0.1
Ethylbenzene	1.2045E+005	1.2070E+005	0.2%	ND	0.1
p,m-Xylene	2.6602E+005	2.6655E+005	0.2%	ND	0.1
o-Xylene	1.0667E+005	1.0688E+005	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

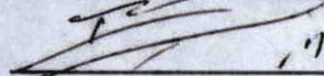
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	454	90.8%	39 - 150
Toluene	ND	500	448	89.5%	46 - 148
Ethylbenzene	ND	500	465	93.0%	32 - 160
p,m-Xylene	ND	1000	999	99.9%	46 - 148
o-Xylene	ND	500	471	94.2%	46 - 148

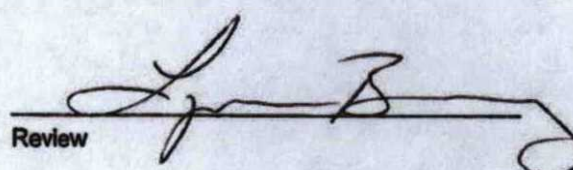
ND - Parameter not detected at the stated detection limit.

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 Photolonization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 56970, 56974


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1555
Sample ID:	Bottom	Date Reported:	01-12-11
Lab ID#:	56970	Date Sampled:	01-11-11
Sample Matrix:	Soil	Date Received:	01-11-11
Preservative:	Cool	Date Analyzed:	01-12-11
Condition:	Intact	Chain of Custody:	11005


Parameter	Concentration (mg/Kg)
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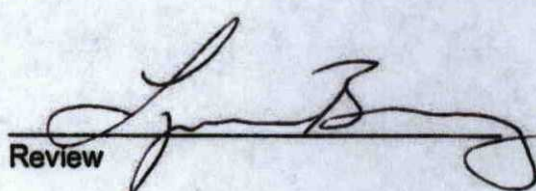
Total Chloride

70

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: Ross Federal 1M (hBr)



Analyst

Review

CHAIN OF CUSTODY RECORD

11005

Client: COPC			Project Name / Location: Ross Federal IM (hBr)			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: C Delgai			<div style="text-align: center;">X</div>														
Client Phone No.:			Client No.: 92115-1555			<div style="text-align: center;">X</div>														
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl	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
Bottom	1/11/11	12:40	56970	Soil Solid	Sludge Aqueous	1-4 oz.														
				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															
				Soil Solid	Sludge Aqueous															
Relinquished by: (Signature) <i>Captain Delgai</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
Relinquished by: (Signature)						Received by: (Signature)														
Relinquished by: (Signature)						Received by: (Signature)														

RUST

