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

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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 **ConocoPhillips Company**	Contact **Shelly Cook-Cowden**
Address **3401 E. 30th St., Farmington, NM 87402**	Telephone No. **505-324-5140**
Facility Name: Krause WN Federal #5E	Facility Type: **Gas Well API#3004524121**

Surface Owner: **Federal**	Mineral Owner: **Federal**	Lease No. **NMSF - 078863**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**28**	**028N**	**011W**	**1785'**	**North**	**880'**	**West**	**San Juan**

Latitude 36.635559° N Longitude -108.01458° 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 – **September 23, 2011**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
MAR 05 2015
NMOCD
DISTRICT

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 regulatory standard by USEPA method 418.1 for TPH and Organic Vapors, confirming a release. The sample was then transported to the lab and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; 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: Shelly Cook-Cowden	OIL CONSERVATION DIVISION	
Printed Name: Shelly Cook-Cowden	Approved by District Supervisor:	
Title: Field Environmental Specialist	Approval Date: 4/30/15	Expiration Date:
E-mail Address: Shelly.g.Cook-Cowden@ConocoPhillips.com	Conditions of Approval:	Attached ☐
Date: November 9, 2011 Phone: 505-324-5140		

* Attach Additional Sheets If Necessary

#NCS1512041661

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October 31, 2011 Project Number 96052-2035

Ms. Shelly Cook-Cowden
Conoco Phillips
3401 East 30th Street
Farmington, New Mexico 87401 Phone: (505) 599-3403

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE KRAUSE WN FED 5E WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Krause WN Fed 5E well site located in Section 28, Township 28 North, Range 11 West, San Juan County, New Mexico. Prior to Envirotech's arrival on September 23, 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 TPH using USEPA Method 8015, 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 100 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water less than 200 feet and depth to groundwater less than 50 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 8015; 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.

Noel Burciaga
Environmental Technician
nburciaga@envirotech-inc.com

Enclosures: Analytical Results
Field Notes

Cc: Client File 96052

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-2035
Sample No.:	1	Date Reported:	9/29/2011
Sample ID:	Bottom 5pt composite	Date Sampled:	9/23/2011
Sample Matrix:	Soil	Date Analyzed:	9/23/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**200**	**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: **Krause WN Fed 5E**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Noel Burciaga
Printed

Review

Toni Mcknight
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 23-Sep-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	193
	500	
	1000	

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

Analyst — Date: 9/29/2011

Noel Burciaga
Print Name

Review — Date: 9/29/2011

Toni Mcknight
Print Name

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Field Chloride

Client:	ConocoPhillips	Project #:	96052-2035
Sample No.:	1	Date Reported:	10/7/2011
Sample ID:	BGT Composite	Date Sampled:	9/23/2011
Sample Matrix:	Soil	Date Analyzed:	9/23/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

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: **Krause WN Fed 5E**

Analyst

Noel Burciaga
Printed

Review

Toni Mcknight
Printed

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-2035
Sample ID:	Bottom 5pt Comp	Date Reported:	09-26-11
Laboratory Number:	59742	Date Sampled:	09-23-11
Chain of Custody No:	12629	Date Received:	09-23-11
Sample Matrix:	Soil	Date Extracted:	09-23-11
Preservative:	Cool	Date Analyzed:	09-24-11
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)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	

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: **BGT Closure / Krouse WN Fed 5E**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-24-11 QA/QC	Date Reported:	09-26-11
Laboratory Number:	59742	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-24-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40810	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40810	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**8.63**	**0.2**
Diesel Range C10 - C28	**1.42**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.00%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.00%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**200**	**80.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**219**	**87.7%**	**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 59733-59738, 59742.**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-2035
Sample ID:	Bottom 5pt Comp	Date Reported:	09-28-11
Laboratory Number:	59742	Date Sampled:	09-23-11
Chain of Custody:	12629	Date Received:	09-27-11
Sample Matrix:	Soil	Date Analyzed:	09-27-11
Preservative:	Cool	Date Extracted:	09-27-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**1.5**	**1.0**
Ethylbenzene	**2.2**	**1.0**
p,m-Xylene	**4.9**	**1.2**
o-Xylene	**3.5**	**0.9**
Total BTEX	**12.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**87.6 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.4 %**

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: **BGT Closure/ Krouse WN Fed. 5E**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0927BBLK QA/QC	Date Reported:	09-28-11
Laboratory Number:	59698	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-27-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	3.4675E+006	3.4744E+006	0.2%	ND	0.1
Toluene	3.5462E+006	3.5533E+006	0.2%	ND	0.1
Ethylbenzene	3.1438E+006	3.1501E+006	0.2%	ND	0.1
p,m-Xylene	8.5492E+006	8.5664E+006	0.2%	ND	0.1
o-Xylene	2.9831E+006	2.9891E+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	474	94.8%	39 - 150
Toluene	ND	500	472	94.4%	46 - 148
Ethylbenzene	ND	500	457	91.4%	32 - 160
p,m-Xylene	ND	1000	939	93.9%	46 - 148
o-Xylene	ND	500	474	94.7%	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 59698-59701, 59742, 59727-59730, 59637-59642

Analyst

Review

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-2035
Sample ID:	Bottom 5pt Comp	Date Reported:	09/26/11
Laboratory Number:	59742	Date Sampled:	09/23/11
Chain of Custody No:	12629	Date Received:	09/23/11
Sample Matrix:	Soil	Date Extracted:	09/26/11
Preservative:	Cool	Date Analyzed:	09/26/11
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**232**	**36.2**

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: **BGT Closure / Krouse WN Fed 5E**

Analyst

Review

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	09/26/11
Laboratory Number:	09-26-TPH.QA/QC 59742	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	09/26/11
Preservative:	N/A	Date Extracted:	09/26/11
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	07/25/11	09/26/11	1,810	1,670	7.8%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	36.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	232	217	6.3%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	232	2,000	2,530	113%	80 - 120%

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: **QA/QC for Samples 59742.**

Analyst

Review

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Chloride

Client:	ConocoPhillips	Project #:	96052-2035
Sample ID:	Bottom 5pt Comp	Date Reported:	09/26/11
Lab ID#:	59742	Date Sampled:	09/23/11
Sample Matrix:	Soil	Date Received:	09/23/11
Preservative:	Cool	Date Analyzed:	09/26/11
Condition:	Intact	Chain of Custody:	12629

Parameter	Concentration (mg/Kg)
Total Chloride	**10**

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: **BGT Closure / Krouse WN Fed 5E**

Analyst

Review

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CHAIN OF CUSTODY RECORD

12629

Client:	Project Name / Location:	ANALYSIS / PARAMETERS
ConoCo	BGT closure / Krouse GN Fed 2	Rush
Client Address:	Sampler Name:	
	Noa B.	
Client Phone No.:	Client No.:	
	96052-2035	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative: $HgCl_2$	Preservative: HCl	Preservative: Cool	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 Sft Comp	09-23-11	1225	59742	Soil Sludge Solid Aqueous	4 oz				X	X							X	X				Y	Y
				Soil Sludge Solid Aqueous						added 9/27 per Noel H													
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous						+ Rush	X												
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09-23-11	1:40 pm	Jennifer Winters	9-23-11	1:40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

Rush

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Client: Conoco

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Project No: 96052-2035
COC No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
DATE STARTED: 09-23-4
DATE FINISHED: 09-23-4
ENVIRONMENTAL SPECIALIST: Aloe, B

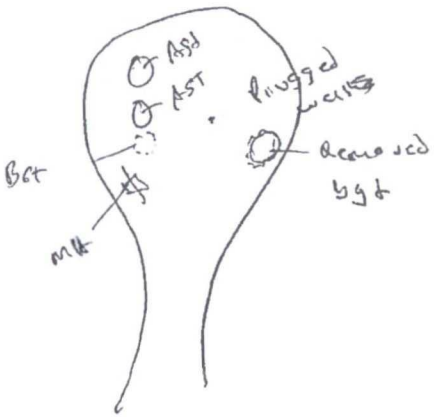
LOCATION: NAME: Krause WN Fed WELL #: 5E
QUAD/UNIT: SEC: 28 TWP: 28N RNG: 11W PM: CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR:

EXCAVATION APPROX: — FT. X — FT. X — FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: — REMEDIATION METHOD: —
LAND USE: LEASE: LAND OWNER:
CAUSE OF RELEASE: BGT removal MATERIAL RELEASED: Produced water

SPILL LOCATED APPROXIMATELY: FT. FROM
DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: NEAREST SURFACE WATER: < 200'
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: PPM 100
SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	12:18	~	~	—	—	—	193	193
Bottom Bgt Comp	12:25			5g	20 mL	1:4	50	200

SPILL PERIMETER



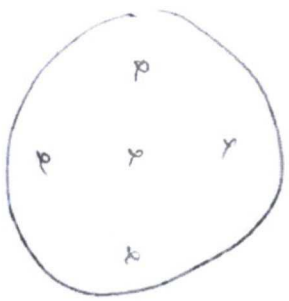
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
Bottom	50

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: ONSITE:

PAGE NO: 1 OF 1

DATE STARTED: 09-23-2014
DATE FINISHED: 09-23-2014

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

ENVIRONMENTAL SPECIALIST: Noel Bertaga
LAT: 36.63556857
LONG: -108.0151642

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Krause WN Fed WELL #: 5E TEMP PIT: PERMANENT PIT: BGT: X
LEGAL ADD: UNIT: SEC: 28 TWP: 28N RNG: 11W PM:
QTR/FOOTAGE: CNTY: SJ ST: NM

EXCAVATION APPROX: ~~FT. X FT. X~~ FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: ~~REMEDIATION METHOD:~~
LAND OWNER: API: 30045 BGT / PIT VOLUME: 120 BBL
CONSTRUCTION MATERIAL: Steel DOUBLE-WALLED, WITH LEAK DETECTION: SW/SB

LOCATION APPROXIMATELY: FT. FROM WELLHEAD
DEPTH TO GROUNDWATER: ~~≥~~50' Surface water: <700'

___ TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP 100 TPH closing
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

X 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)
12:12	200 STD		-	-	-	193	193
12:25	Bottom Cor Comp	1	5g	20m	1:4	50	200
		2					
		3					
		4					
		5					
		6					

PERIMETER

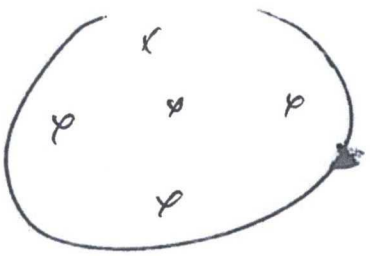
FIELD CHLORIDES RESULTS

SAMPLE ID	READING	CALC. (mg/kg)
Bottom Cor	ND	10

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
Bottom Cor	ND

PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
Bottom Cor	GRO & DRO	ND
Bottom Cor	CHLORIDES	10

NOTES: Confirmed Release. Sampled for spot Closure.

Ranking:

WORKORDER # WHO ORDERED