1625 N French Dr , Hobbs, NM 88240 District II 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

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

Form C-141

Revised October 10, 2003

side of form

Release Notification and Corrective Action

30	.045	J22	25			OPERA	TOR			al Report		Final Report				
Name of Co					(Contact Tim Lovseth										
			0, Denv	er CO 80264		Telephone No. 303 839-5504 ext 317										
Facility Nan	ne Horton	11			I	Facility Type well										
Surface Own	ner Charl	es & Mary	Eppard	Mineral O	wner F	ederal			Lease N	lo. SF-078	146A					
				LOCA	TION	OF REI	LEASE									
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County						
D	27	32N	12W	880	FNL		1190	FWL		San Juan						
	Latitude 36.96196 Longitude 108.08762															
NATURE OF RELEASE																
Type of Relea			ns				Release unknow			Recovered no						
Source of Rel							our of occurrence	e ?	Date and	Hour of Disc	covery	7/13 10 am				
Was Immedia ☑ Yes □						If YES, To Brandon I	Whom? Powell - OCD									
By Whom? T	im Lovsetl	n				Date and I-	our 7/13/10	10 am								
Was a Watero		hed?				If YES, Vo	lume Impacting t	he Wate	ercourse.							
			Yes 🛚							621282	2930	37				
	By Whom? Tim Lovseth Was a Watercourse Reached? If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Describe Area Affected and Cleanup Action Taken.* Date and Hour 7/13/10 10 am If YES, Volume Impacting the Watercourse. RECEIVED RECEIVED RECEIVED OIL CONS. DIV. DISE 3 OIL CONS. DIV.											D 2345678				
				d TPH to be 1350) mg/kg	by method	118.1, no remedia	al action	n taken	COLON COL	91. DIV.	ELZILION				
Describe Area	a Affected	and Cleanup A	Action Tal	cen.*					_							
No soil hydro	ocarbon sta	aining observ	ed, no cle	anup action take	n, resar	npled soil fo	r TPH to be anal	yzed by								
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.																
	1.4	5	1			OIL CONSERVATION DIVISION										
Signature Printed Name	Tim Lov	seth		- 0		Approved by District Supervisor. Branch Sell For. Co										
Title. Explor	ation Man	ager				Approval Date: 9/21/16 Expiration Date:										
E-mail Addre	ss: timlovs	eth@qwest.n	et			Conditions of	-	Attached								
Date: 7-2 5504 ext 317	6-10			Phone: 303 839-						Апаспед		:				
Attach Addit	tional She	ets If Necess	arv													



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Hallador Petroleum	Project #:	10067-0001
Sample ID:	5 Pt Comp	Date Reported:	07-08-10
Laboratory Number:	54986	Date Sampled:	07-01-10
Chain of Custody:	9842	Date Received:	07-01-10
Sample Matrix:	Soil	Date Analyzed:	07-07-10
Preservative:	Cool	Date Extracted:	07-06-10
Condition:	Intact	Analysis Requested:	BTEX

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	100 %	
	1,4-difluorobenzene	100 %	
	Bromochlorobenzene	100 %	

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: Horton #11

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number Sample Matrix: Preservative: Condition:	N/A 0707BBLK QA/QC 55020 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received Date Analyzed: Analysis		N/A 07-07-10 N/A N/A 07-07-10 BTEX				
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.				
Detection Limits (ug/L)		Accept. Ran	ige 0 - 15%	Conc	Limit				
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	4 4610E+006 3 7622E+006 2 8177E+006 6.8481E+006 2.4700E+006	4 4699E+006 3 7697E+006 2 8234E+006 6.8618E+006 2 4750E+006	0.2% 0.2% 0.2% 0.2% 0.2%	ND ND ND ND	0.1 0.1 0.1 0.1 0.1				
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit				
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	6.7 7.8 ND 5.5 4.0	6.8 9.6 ND 5.7 4.3	1.5% 23.1% 0.0% 3.6% 7.5%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	0.9 1.0 1.0 1.2 0.9				
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range				
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	6.7 7.8 ND 5.5 4.0	50.0 50.0 50.0 100 50.0	52.2 48.0 48.4 100 47.8	92.1% 83.0% 96.8% 94.5% 88.5%	39 - 150 46 - 148 32 - 160 46 - 148 46 - 148				

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

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 54956-54957, 54981-54983) 54985-54886, 55020-55021

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Hallador Petroleum	Project #:	10067-0001
Sample ID.	5 Pt Comp	Date Reported:	07-08-10
Laboratory Number:	54986	Date Sampled:	07-01-10
Chain of Custody No:	9842	Date Received:	07-01-10
Sample Matrix:	Soil	Date Extracted:	07-02-10
Preservative:	Cool	Date Analyzed:	07-02-10
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)			
	×				
Total Petroleum Hydrocarbons	1,350	5.5			

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:

Horton #11

Analyst

Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client: Sample ID: QA/QC QA/QC Project #:

N/A

07-02-TPH.QA/QC 54974

Date Reported: Date Sampled:

07-02-10

Laboratory Number: Sample Matrix:

Freon-113

Date Analyzed:

N/A 07-02-10

Preservative: Condition:

N/A N/A

Date Extracted: Analysis Needed: 07-02-10 TPH

Calibration

I-Cal Date

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference

Accept. Range

06-30-10

07-02-10

1,716

1,770

3.1%

+/- 10%

Blank Conc. (mg/Kg)

TPH

Concentration ND

Detection Limit

9.6

Duplicate Conc. (mg/Kg)

TPH

Sample 94.8

Duplicate 86.5

% Difference 8.8%

Accept. Range +/- 30%

Spike Conc. (mg/Kg)

TPH

Sample 94.8

Spike Added 2,000

Spike Result 2,090

% Recovery 99.8%

Accept Range 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 54974-54975; 54979-54980; 54988, 54899; 54954-54955

and 54985-54986

Analyst



Chloride

Hallador Petroleum Project #: Client: 10067-0001 Sample ID: 5 Pt Comp Date Reported: 07-08-10 Lab ID#: 54986 Date Sampled: 07-01-10 Soil Date Received: Sample Matrix: 07-01-10 Preservative: Cool Date Analyzed: 07-07-10 Condition: Intact Chain of Custody: 9843

Parameter

Concentration (mg/Kg)

Total Chloride

30

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:

Horton #11

Analyst

Review

CHAIN OF CUSTODY RECORD

09842

Client: Project Name / Location Hallador Ferralcum / Horrow				· # 1))				ANALYSIS / PARAMETERS														
Client Address:	e e sur es que		Sampler Name:		Na)					3015)	8021)	8260)	Ø			_				_			
Client Phone No.:									TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	RIDE			Sample Cool	Sample Intact	
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Sample Matrix	No./Volume of Containers			tive) HGT	ВТЕХ	000	RCRA	Cation	RCI	TCLP	PAH	TPH (CHLORIDE			Sampl	Sampl
3-pr cong	7/1/10	11:30	54986	Solid	Sludge Aqueous	,	ļ ļ				K							K	&				
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Słudge Aqueous							:											
				Soil Solid	Sludge Aqueous																		
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