District I
1625 N. French Dr., Holbs, 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

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes 🛛 No 🗍 Type of action: Registration of a pit or below-grade tank 🗋 Closure of a pit or below-grade tank 🕅

Operator: Burlington Resources	Telephone:	<u>(505) 326-9841</u>	e-mail address: Lo	ouis.E.Hasely@conocoph	illips.com
Address: 3401 East 30th Street, Farmington, New Mexico,	<u>87402</u>				
Facility or well name: <u>Huerfano Unit #4E</u>	API #:	30004526245	U/L or Qtr/Qtr <u>K</u>	_Sec <u>24</u> T <u>26N</u> R	<u>10W</u>
County: San Juan	Latitude	36,471485	Longitude	NAD: 1927	7 🖾 1983 🗖
Surface Owner: Federal 🛛 State 🗖 Private 🗖 Indian 🗖				•	
<u>Pit</u>		Below-grade tank	-		
Type: Drilling - Production Disposal		Volume: <u>60</u> bb	Type of fluid: Produced Wate	er and Incidental Oil	
Workover 🔲 Emergency 🔲		Construction mater	ial: <u>Fiberglass</u>		
Lined 🔲 Unlined 🔲		Double-walled, wit	h leak detection? Yes 🔲 If no	t, explain why not.	
Liner type: Synthetic 🗋 Thicknessmil Clay 🗌		No. Tank in place	prior to Rule 50.		
Pit Volumebbl					
Depth to ground water (vertical distance from bottom of p	t to gengemal	Less than 50 feet		(20 points)	
high water elevation of ground water.)	t to seasonar	50 feet or more, bu	t less than 100 feet	(10 points)	
nigh water elevation of ground water.)		100 feet or more		(0 points)	0
Wellhead protection area: (Less than 200 feet from a priva	ite domestic	Yes		(20 points)	
water source, or less than 1000 feet from all other water so		No		(0 points)	0
		Less than 200 feet		(20 points)	
Distance to surface water: (horizontal distance to all wetla	••••	200 feet or more, b	ut less than 1000 feet	(10 points)	
irrigation canals, ditches, and perennial and ephemeral wat	ercourses.)	1000 feet or more		(0 points)	0
		Ranking Score (Te	otal Points)		0
If this is a pit closure: (1) Attach a diagram of the facility s	howing the pit's	s relationship to other	equipment and tanks. (2) Indic	ate disposal location: (ch	neck the onsite box if
your are burying in place) onsite 🗌 offsite 🔲 If offsite, na	me of facility _	(3) Attach a gene	ral description of remedial action	on taken including remedi	ation start date and end
date. (4) Groundwater encountered: No 🛛 Yes 🗋 If yes,	show depth belo	w ground surface	ft. and attach sampl	e results.	

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Soil tested ok -Laboratory results attached no excaved necessa RCVD APR27'07 OIL CONS. DIV. DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

3/30/07 Date:

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

5) Hoselin Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

d

Approval:

Signature Printed Name/Title

JUL 2 5 2007 Date:

Deputy Oil & Gas Inspector, District #3

CLIENT:	E	ENVIROTE ENVIRONMENTAL SCIENTI 5796 U.S. HIGHW FARMINGTON, NEW PHONE. (505)	AY 64-3014 MEXICO 87401			ION NO:
FIELD REPOR	T: CL	OSURE	VERIFI	CATION	PAGE	No: _i of _!
LOCATION: <u>NAME</u> Huerf. Quad/unit K sec: QTR/FOOTAGE:	24 TWP 26	WELL #. 4E V RNG 10W P CONTRACTOR.	M NMPM CNT	P Y: SANJUAN ST HM	DATE FIN	ARTED. <u>2121107</u> VISHED <u>2121107</u> MENTAL GW-
EXCAVATION APPROX DISPOSAL FACILITY: LAND USE:	N/A		REMEDIATI	ON METHO	DD: <u>-</u> K/	la
FIELD NOTES & REMAR depth to groundwater:						
NMOCD RANKING SCORE	N DESCRIPI			X	PIT_AI	K <u>ONE</u> : Bandoned Tank Installed
Crew from Cauldur Was moved sligh BGT. Sample f 8015/8021. Su		F	<u>IELD 418.1 CA</u>	LCULATIONS		
SCALE 0 FT		PLE I.D. LAB No 3'865	5.0	nl freon d		EADING CALC ppm
PIT PERIMI	1	1 kcl/m / 1 2 3 4 5		PIT	PRO	FILE
		SAMPLE ANALYS ID BALLYS Batton QUIST	IS TIME	ио рат ,ca) раб	×	
TRAVEL NOTES. CALLOUT:			ONSITE.			

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ENVIROTECHICAL SOLUTIONS FOR A BENTER TOMOL ROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-121-047
Sample No.:	1	Date Reported:	2/22/2007
Sample ID:	Bottom @ 3' Below BGT	Date Sampled:	2/21/2007
Sample Matrix:	Soil	Date Analyzed:	2/21/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	5,830	5.0
ND = Parameter not detected at the stated	detection limit.	418.1 Method
	Passed	8015 Test

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

Comments: Huerfano Unit 4E

Analyst

Review

ENVIROTECHINC.

EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Blank Conc. (n TPH Duplicate Con TPH Spike Conc. (n	c. (mg/Kg)	S	ND Sample 2,471	Duplicate %	5.0	Accept Rang +/- 30%
TPH Duplicate Con		S	ND Sample	Duplicate ,	5.0 Difference	Accépt. Rang
ГРН			ND	anne - 'andre hannan an tha an earl an tha barran a barra	5.0	annaniner Sustanoninentistanen (, é
งสระสารแสนสารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารที่สารท	<u>IIQ/NG) ((19)</u>	our have been a second to be a second			tradimentarity of the second second	it <u>s in the second</u>
กรรณที่สามารถสาวที่ (a "allast "สามารถสาวารีสาวสาวกรรมที่สามารถสาวที่สาวสาวกรรมที่ (a for all all all all all a	ng/ng)	our have been a second to be a second		and a state of the	tradimentarity of the second second	it for the set
		Con	centration	D	-1	,
	05-22-04	2/21/2007	1,735	1,786	2.9%	+/- 10%
Calibration		atsassatish delaha masanaka dan sasanasan manda markakan kana sa	Cal RF:		water a second and the second s	Accept. Rang
Condition:		N/A	Ana	alysis Needed:	٦	[PH
Preservative:		N/A	Dat	te Extracted:	2	2/21/2007
Sample Matrix:		Freon-113	Dat	te Analyzed:	2	2/21/2007
_aboratory Numbe	er:	01-24-TPH.QA/QC	Dat	te Sampled:	1	N/A
		QA/QC	Dat	te Reported:	2	2/22/2007
Sample ID:			FIC	ject #:	5	92115-121-02

ND = Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Huerfano Unit #4E

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	92115-121-047
Sample ID:	Bottom 3' Below	Date Reported:	02-23-07
Laboratory Number:	40157	Date Sampled:	02-21-07
Chain of Custody:	2117	Date Received:	02-21-07
Sample Matrix:	Soil	Date Analyzed:	02-22-07
Preservative:	Cool	Date Extracted:	02-22-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	336	1.8	
Toluene	3,100	1.7	
Ethylbenzene	904	1.5	
p,m-Xylene	12,440	2.2	
o-Xylene	5,190	1.0	
Total BTEX	21,970		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Huerfano Unit 4E

en l. Analyst

Muster m Walles Review

Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID:	N/A 02-22-BTEX QA/QC		[⊃] roject #: Date Reported:		N/A 02-23-07
Sample ID: _aboratory Number:	02-22-BTEX QAVQC 40148		Date Reported: Date Sampled:		02-23-07 N/A
Sample Matrix:	Soil		Date Received:		N/A
Preservative:	N/A		Date Analyzed:		02-22-07
Condition:	N/A		Analysis:		BTEX
Calibration and Detection Limits (ug	I-Cal RF:	C-Cal RF: Accept: Rang	C Salles Saltan and	Blank Conc	Detect. Limit
Benzene	2.5017E+007	2.5067E+007	0.2%	ND	0.2
Foluene	3.5308E+007	3 5379E+007	0.2%	ND	0.2
Ethylbenzene	1.5948E+007	1.5980E+007	0.2%	ND	0.2
o,m-Xylene	6.7786E+007	6.7922E+007	0.2%	ND	0.2
o-Xylene	2.8410E+007	2.8466E+007	0.2%	ND	0.1
Duplicate Conc. (ug/K	g) Sample	Duplicate	%Diff.	Accept Range	Detect: Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	3.4	3.4	0.0%	0 - 30%	1.7
Ethylbenzene	5.6	5.6	0.0%	0 - 30%	1.5
					2.2
-	13.3	13.2	0.8%	0 - 30%	4.4
o,m-Xylene o-Xylene	12.9	13.2 12.9 Amount Spiked	0.0%	0 - 30% 0 - 30% % Recovery	
o,m-Xylene o-Xylene Spike Conc. (ug/Kg)	12.9	12.9	0.0%	0 - 30%	
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene	12.9 Sample	12.9 Amount Spiked	0.0% Spiked Sample	0 - 30%	1.0
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	12.9 Sample ND 3.4	12.9 Amount Spiked 50.0	0.0% Spiked Sample 49.9	0 - 30% % Recovery 99.8%	1.0 Accept Range 39 - 150
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene	12.9 Sample ND 3.4 5.6	12.9 Amount Spiked 50.0 50.0 50.0	0.0% Spiked Sample 49.9 53.3	0 - 30% % Recovery 99.8% 99.8% 100.0%	1.0 Accept Range 39 - 150 46 - 148
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene	12.9 Sample ND 3.4	12.9 Amount Spiked 50.0 50.0	0.0% Spiked Sample 49.9 53.3 55.6	0 - 30% % Recovery 99.8% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	12.9 Sample ND 3.4 5.6 13.3	12.9 Amount Spiked 50.0 50.0 50.0 100	0.0% Spiked Sample 49.9 53.3 55.6 113	0 - 30% % Recovery 99.8% 99.8% 100.0% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160 46 - 148
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not detect References: Me De	12.9 Sample ND 3.4 5.6 13.3 12.9	12.9 Amount Spiked 50.0 50.0 50.0 100 50.0 100 50.0	0.0% Spiked Sample 49.9 53.3 55.6 113 62.8 olid Waste, SW-846 romatography Using	0 - 30% % Recovery 99.8% 99.8% 100.0% 99.8% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160 46 - 148
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not detect References: Me De Me	12.9 Sample ND 3.4 5.6 13.3 12.9 ed at the stated detection limit. ethod 5030B, Purge-and-Trap, Test Meth icember 1996. ethod 8021B, Aromatic and Halogenated	12.9 Amount Spiked 50.0 50.0 50.0 100 50.0 100 50.0 Volatiles by Gas Chri ivity Detectors, SW-	0.0% Spiked Sample 49.9 53.3 55.6 113 62.8 olid Waste, SW-846 romatography Using 846, USEPA Decem	0 - 30% % Recovery 99.8% 99.8% 100.0% 99.8% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160 46 - 148
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not detect References: Me De Me	12.9 Sample ND 3.4 5.6 13.3 12.9 ed at the stated detection limit. ethod 5030B, Purge-and-Trap, Test Method icember 1996. thod 8021B, Aromatic and Halogenated otoionization and/or Electrolytic Conduct	12.9 Amount Spiked 50.0 50.0 50.0 100 50.0 100 50.0 Volatiles by Gas Chri ivity Detectors, SW-	0.0% Spiked Sample 49.9 53.3 55.6 113 62.8 olid Waste, SW-846 romatography Using 846, USEPA Decem	0 - 30% % Recovery 99.8% 99.8% 100.0% 99.8% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160 46 - 148
o,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene o,m-Xylene o-Xylene ND - Parameter not detect References: Me De Me	12.9 Sample ND 3.4 5.6 13.3 12.9 ed at the stated detection limit. ethod 5030B, Purge-and-Trap, Test Method icember 1996. thod 8021B, Aromatic and Halogenated otoionization and/or Electrolytic Conduct	12.9 Amount Spiked 50.0 50.0 50.0 100 50.0 100 50.0 Volatiles by Gas Chri ivity Detectors, SW-	0.0% Spiked Sample 49.9 53.3 55.6 113 62.8 olid Waste, SW-846 romatography Using 846, USEPA Decem	0 - 30% % Recovery 99.8% 99.8% 100.0% 99.8% 99.8%	1.0 Accept Range 39 - 150 46 - 148 32 - 160 46 - 148

ENVIROTECH LABS

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No:	Burlington Bottom 3' Below 40157 2117	Project #: Date Reported: Date Sampled: Date Received:	92115-121-047 02-23-07 02-21-07 02-21-07
Sample Matrix:	Soil	Date Extracted:	02-22-07
Preservative:	Cool	Date Analyzed:	02-22-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,290	0.2
Diesel Range (C10 - C28)	910	0.1
Total Petroleum Hydrocarbons	2,200	0.2

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: Huerfano Unit 4E

Review Let

ENVIROTECH LABS

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:	N/A					
Sample ID:	02-22-07 QA/0	2C	Date Reported:	02-23-07					
Laboratory Number:	40148		Date Sampled:	N/A					
Sample Matrix:	Methylene Chlor	ide	Date Received:	N/A					
Preservative:	N/A		Date Analyzed:	02-22-07					
Condition:	N/A		Analysis Reque	TPH					
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range				
Gasoline Range C5 - C10	07-11-05	1.0026E+003	1.0036E+003	0.10%	0 - 15%				
Diesel Range C10 - C28	07-11-05	1.0056E+003	1.0076E+003	0.20%	0 - 15%				
Blank Conc. (mg/L - mg/Kg)		Concentration	and the second	Detection Limi	t				
Gasoline Range C5 - C10		ND		0.2					
Diesel Range C10 - C28		ND		0.1					
Total Petroleum Hydrocarbons		ND		0.2	0.2				
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range					
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%					
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%					
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range				
Gasoline Range C5 - C10	we want want - we - with an it we will be a set of the			100.0%	75 - 125%				
Diesel Range C10 - C28	ND	250	250	100.0%	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 40148 - 40157

un C. Af <u>e</u> Analyst

Misting Walles Review

CHAIN OF CUSTODY RECORD

2117

Client / Project Name			Project Location													
BURLINGTON		HUERFANIO UNIT 4E			E	ANALYSIS / PARAMETERS										
Sampler: Client No.					ω							Remarks				
GWC		92115-121-047			No. of ontainer		S I							•		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix			No. of Containers	8021	8015							
BOTTOM 3' BELOW	82/21/07	1030	40157				1	V	2							
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Relinquished by: (Signature)			02/21/07											Time /200		
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				E ∩V	IRO	TE(CH		C.				Samp	ble Receipt		
Farmington, Ne					5796 U.S. Highway 64						•		Y	N	N/A	
					lew M	Mexico 87401						eceived Inta	0			
-	-		(505) 632-0					0615					Cool - Ice/Blue Ice			

san juan reproduction 578-129