District II
1301 W. Grand Avenue, Artesia, NM 88240
District III
1300 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

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \) No \(\subseteq \)

Type of action: Registration of a pit or below-grade tank \(\subseteq \) Closure of a pit or below-grade tank \(\subseteq \) e-mail address: sfallin@duncanoil.com Telephone: (303) 759-3303 Operator: Duncan Oil Address: 1777 South Harrison Street - Penthouse One, Denver, Colorado, 80210 U/L or Qtr/Qtr _ D Sec _ 7 T _ 29N _ R 16W Facility or well name: N. Hogback 7 No. 6 API#: <u>3004521889</u> _Longitude __-108° 34.420 NAD: 1927 X 1983 Latitude 36° 44.706' County: San Juan Surface Owner: Federal

State

Private

Indian

Indian Pit Below-grade tank Type: Drilling ☐ Production ☒ Disposal ☐ Volume: _____bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If not, explain why not. Lined Unlined 🛛 Liner type: Synthetic Thickness ___ Pit Volume (20 points) Less than 50 feet Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more 20 (0 points) (20 points) Yes Wellhead protection area: (Less than 200 feet from a private domestic 0 No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 10 1000 feet or more (0 points) 30 Ranking Score (Total Points) If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite 🔲 offsite 🔯 If offsite, name of facility Envirotech Landfarm #2 . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🖾 Yes 🔲 If yes, show depth below ground surface ft, and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: Approximately 1716 cubic yards of contaminated soil was excavated from the North Hogback 7-#6 Separator pit. Documentation of BTEX analysis via USEPA Method 8021B is attached for the Bottom of excavation. Before backfill, the excavation was treated with a potassium permanganate solution to aid break down of any residual contaminants in the soil 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 🛄. Printed Name/Title Steve Fallin - Production Manager 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. DEPUTY OL & GAS INSPECTOR DIST. 49 Approval: lan o 9 2006 Printed Name/Title



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Duncan Oil	Project #:	05161-001
Sample ID:	Duncan Oil 7 #6 30'	Date Reported:	09-08-05
Laboratory Number:	34270	Date Sampled:	09-07-05
Chain of Custody:	14791	Date Received:	09-07-05
Sample Matrix:	Soil	Date Analyzed:	09-08-05
Preservative:	Cool	Date Extracted:	09-07-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	16.9	1.8	
Toluene	56.3	1.7	
Ethylbenzene	268	1.5	
p,m-Xylene	23.2	2.2	
o-Xylene	104	1.0	
Total BTEX	468		

ND - Parameter not detected at the stated detection limit.

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

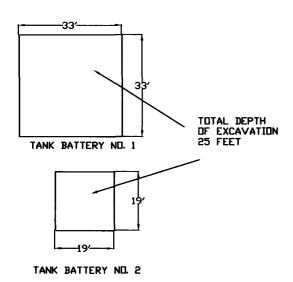
Comments:

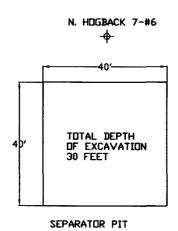
N. Hogback.

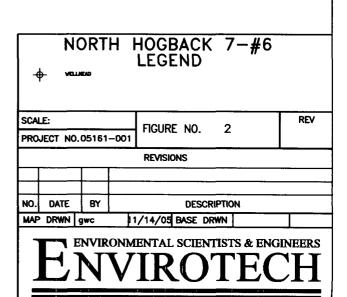
Analyst C. Option

Mistare m Walter
Review









5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

CLIENT:		LNV	IROTECI	H INC.	•	LOCA	IN NOIT]:
		ENVIRONME 5796 FARMIN PH	NTAL SCIENTISTS U.S. HIGHWAY IGTON, NEW ME ONE: (505) 632	& ENGINEERS 64-3014 XICO 67401 -0615			C.D.C. NI	D:
FIELD REPOR								1 of 1
LOCATION: <u>name: N. Hog</u> b. QUAD/UNIT: D SEC:	ack 7*(WELL 29 RNG	#: 6 16 PM	PIT: Sep NMPM CNT	ATATOR SAN Y: TUM ST: NO	DATE :	STARTED:	9/1/05
QTR/FOOTAGE: 1295 FAL	. 100	FWL CONT	RACTOR:			ENVIRO SPECIA	NMENTAL LIST: <u>G.</u>	Crub true
EXCAVATION APPROX	TLF	± 3	I	REMEDIATI	ON METH	IOD:		
LAND USE: grazing	- ,							
FIELD NOTES & REMAR DEPTH TO GROUNDWATER: < 50								
NMOCD RANKING SCORE: 30	NM□C	D TPH CLOSUR	RE STD 10	O PPM		CHE	ECK ON	IE_:
SOIL AND EXCAVATIO					1	PIT	ABANDON	— √ED
	74	**************************************						INSTALLED
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		100000		LD 418.1 CAL			1	T
	IIO3	WAST WALL	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING 10	CALC. ppm
SCALE	1135	South wan	-	5.0	20	ı	3	12
O FT	1200	EAST WALL		5.0	20	i	4	16
PIT PERIME	TER		OVM	~	רוק	PR	OFILE	1
			RESULT	S IFADSPACE			<u> </u>	J
The Paris	a Mark	2 South 3 EAST	VAII 0.0 WEU 5.0 WAII 0.0	IEADSPACE (ppm)	Copples not we	Clark!		
		4 Harts 5 50th 30'		5	0	Cler	سب _م ۔	6
	~			1	b 3 0	<i>ى</i> د	animated	- 1
7 1		SAMPLE	AB SAMPL	ES TIME 2	0000	Con		24
				3.	Consolodate	4	o'	
•			_					
TRAVEL NOTES: CALLOUT:				NSITE:				
OALLOOT.				4011L.				
							-	

1. CASE # 14- 20- 0603 - 10009



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

6

Date Reported:

9/8/2005

Sample ID:

Composit Sample of Bottom at 30 feet

Date Sampled:

9/6/2005

Sample Matrix:

Soil

Date Analyzed:

9/6/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,772.0

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:

North Hogback 7 - #6, Separator

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Analyst

Review



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

5

Date Reported:

9/8/2005

Sample ID:

Composit Sample of East Wall

Date Sampled:

9/6/2005

Sample Matrix:

Soil

Date Analyzed:

9/6/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

16.0

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:

North Hogback 7 - #6, Separator

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Mug Gabt

Phylon



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

4

Date Reported:

9/8/2005

Sample ID:

Composit Sample of South Wall

Date Sampled:

9/6/2005

Sample Matrix:

Soil

Date Analyzed:

9/6/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

12.0

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:

North Hogback 7 - #6, Separator

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Analyst

(5)



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

1

Date Reported:

9/8/2005

Sample ID:

Composit Sample of West Wall

Date Sampled:

9/6/2005

Sample Matrix:

Soil

Preservative:

Cool

Date Analyzed: Analysis Needed:

9/6/2005 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

40.0

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:

North Hogback 7 - #6, Separator

Instrument callibrated to 200 ppm standard. Zeroed before each sample



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

3

Date Reported:

9/8/2005

Sample ID:

Composit Sample of North Wall

Date Sampled:

9/6/2005

Sample Matrix:

Soil

Date Analyzed:

9/6/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

24.0

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:

North Hogback 7 - #6, Separator

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Analyst

Review