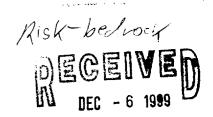
State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088



PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.

Operator:

Burlington Resources (Williams Field Services)

Telephone:

(801) 584-6361

Address:

P.O. Box 58900, Salt Lake City, Utah 84158-0900

WellName:

SJ 27-4 UNIT #32

(85704)

Location:

Unit or Otr/Otr Sec D Sec 23 T 27N R 4W

County Rio Arriba

PitType

Dehydrator

LandType:

Forest

Pit Location: Pit dimensions: length 14ft., width 15ft., depth 5ft

(Attach diagram)

Reference: Wellhead

Footage from reference:

96 ft.

Direction from reference:

96 Degrees West of North

Depth To Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of

ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points)

Greater than 100 feet (0 points)

No

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) Yes (20 points)

(0 points) $\underline{0}$

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points) 200 feet to 1,000 feet(10 points)

Greater than 1,000 feet(10 points)

Ranking Score (TOTAL POINTS):

<u>0</u>

0

Date Remediation Started: 8/24/98

Date Completed: 8/24/98

Remediation Method: Excavation 🗷

Approx. Cubic Yard 40

(check all appropriate

sections)

Landfarmed V

Insitu Bioremediation

Other

LF Headspace 62 ppm

Remediation Location:

Onsite 🗹 Offsite

(ie. landfarmed onsite. name and location of offsite facility)

General Description Of Remedial Action:

The pit was excavated to remove gross petroleum contamination. The excavated material was placed into an onsite landfarm.

Ground Water Encountered:

No

Final Pit:

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location SJ 27-4 #32-EXFL-01

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 5 feet

Sample date 8/29/98

Sample time 7:00

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) <2.0

Ground Water Sample:

No

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE

15-11-99 Rev

PRINTED NAME Mark Harvey for Williams Field Services AND TITLE



Environmental Services P.O. Box 58900 Salt Lake City, UT 84158-0900

Pit Closure and Retirement Addendum- Risk Assessment

Any residual contamination remaining at the San Juan 27-4 #32 poses low risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of the particular constituents of concern which may be present and are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are negligible, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

While residual TPH and / or BTEX contamination may exist at this site, excavation activities were suspended based on encountering bedrock or production equipment which limited continued safe excavation. Based on the analysis of the soil confirmation sample and the site conditions, closure of this site is warranted for the following reasons:

- 1. Soils which exhibited high levels of TPH and BTEX have been removed.
- 2. Residual TPH concentrations are below levels which would be problematic based on the criteria above.
- 3. Discharge has been eliminated and a steel tank installed to prevent any future release to soils.
- 4. Depth to groundwater is estimated at greater than 100'.
- 5. Vertical migration of contamination is limited due to bedrock and/or the low vertical hydraulic conductivity of underlying soils.
- 6. TPH concentrations will not increase and are likely to degrade over time in-situ.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration and the fact that benzene, toluene, ethylbenzene, and xylene meet applicable closure criteria. Additional information may be found in the Technical Background Document titled: Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.

PIT RETIREME	
Date: 8/24/93 8570	Weather Moster SUM ~80°
Well Name 55 27 - 4 # 32 MV Operator BURLINGTO	-
and Type: (BLM) STATE FEE INDIAN FORE	
One Call Made (505-765-1234)?	
Line Marking Evident?	1/
The Midraing Evident.	(cest
Pit Location:	
Reference Wellhead X Other	
Distance from: 96'	PMY (5)
Direction: 96 DegreesE N_X	€
of	
_ <u>×</u> _w s	
	LF (
Starting Pit Dimensions NA X TANK X SET	
Final Pit Dimensions 14' x 15' x 5'	1
	SITE SKETCH
Organic Vapor Readings: Start Soil Desc	cription: Sado
@ 2'	SANC + BROKEN SS
@ 4'	11 11
@ & <i>5'</i>	SANOSTME, BEDROCK
@ 8'	
@ (
<u> </u>	
Well Proximity To: Residence, Domestic Water We	ell, Stock Well None
Arroyo, Wash, Lake, Stream <u>s</u>	
Estimated or Known Distance to	Ground Water 75-100'
Course of Deciding of Ather than processed material	•
Source of Backfill (if other than processed material _	
Drogram Varification	10 27-4-427-V-FVF1-01 COD/water
Samples collected: Type Progress: Verification Progress: Verification	
Progress: Verification	
•	
Sample sent to Lab Via: Courier Hand Carried C	Other Preservative: ICE Other
↑ Comments: _se	TUP + AWAIT WATER TRUCK TO PULL TANK CONTESTS -
	LL LINER - EXCAUNTE SOIL WHICH IS HYDROCARBON
STANCO - HIT O	ROKEL ROCK - GEOROUR & 5' - LAJOFAMM MATERIAL
SOUTH OF PIT-	TOO ROCKY TO SHRED -
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
200	
Soil Shipped to: Prepared by:	ON-SITE LF
(pit sketch-show somple pts.) Prepared by:	M. Hung

(pit sketch-show sample pts.)

09/08/98

09/02/98

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9809139

DATE COLLECTED: 08/26/98

DATE REPORTED:

DATE RECEIVED:

WILLIAMS FIELD SERVICE-M84JI SENT

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: 98 PIT REMEDIATION (CRZ)

Reference Fraction: 9809139-31A

Sample ID: CRZ/27-4#32 V-EXWA-01 / 85704

Sample Matrix: SOIOL Sample Date Collected: 08/26/9807:00:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH BTEX	SW846-8015 SW846 8021	ND	MG/KG	2.0	09/05/98	SKW
BENZENE TOLUENE	5510 0021	ND ND	MG/KG MG/KG	0.050 0.050	• •	
ETHYLBENZENE TOTAL XYLENES		ND ND	MG/KG MG/KG	0.050 0.050	09/05/98	JLO
BFB (SURROGATE)		87	125	75	11, 45, 50	-20

ND-NONE DETECTED DL-DETECTION LIMIT SU-STANDARD UNITS B-DETECTED IN METHOD BLANK

APPROVED BY:

KOESTER LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REPERENCE #: 9809139

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: 98 PIT REMEDIATION (CRZ)

Reference Fraction: 9809139-35A

Sample ID: CRZ/27-4#152 V-EXFL-01 / 85793

Sample Date Collected: 08/27/9808:00:00

09/08/98 DATE REPORTED:

DATE COLLECTED: 08/27/98

DATE RECEIVED: 09/02/98

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
ТРН	SW846-8015	10.1	MG/KG	2.0	09/05/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/06/98	JLO
TOLUENE	•	ND	MG/KG	0.050	09/06/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050		
TOTAL XYLENES		ND	MG/KG	0.050		
BFB (SURROGATE)		84	125	75	,.,,,,,	4.3 -

ND=NONE DETECTED DL=DETECTION LIMIT SU-STANDARD UNITS B-DETECTED IN METHOD BLANK

APPROVED BY:

erry koester

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

REFERENCE #: 9809139 ABORATORY REPORT: 09/08/98 DATE REPORTED: WILLIAMS FIELD SERVICE-MS4JI ENT DATE COLLECTED: 08/30/98 P.O. BOX 58900 TO: 09/02/98 DATE RECEIVED: SALT LAKE CITY, UTAH 84108 MARK HARVEY PROJECT: 98 PIT REMEDIATION (CRZ) Reference Fraction: 9809139-04A Sample Matrix: SOIL Sample ID: CRZ/27-4#32 V-LF-01 / 85704 Bample Date Collected: 08/30/9812:33:00 **HS62** DL ANALYZED BY UNITS RESULT METHOD **TEST** 2.0 09/04/98 SKW MG/KG

66.2

SW846-8015

ND-NONE DETECTED DL-DETECTION LIMIT SU-STANDARD UNITS B=DETECTED IN METHOD BLANK

TPH

APPROVED BY:

KOESTER ABORATORY DIRECTOR