

SAN JUAN BASIN

LOCATION:

Copaco
SALMON 1 (P-30-29-11)

PIT TYPE:

BDP

WELL CLOSURE DOCUMENTATION

RCRA EXEMPT
WASTES:

Yes ☒ No ☐

DATE FLOW TO PIT STOPPED:

USED ONCE 1993 FOR BIAISON HEAD TEST - CEASED FLOW THAT TIME

ACREAGE

TYPE:

☐ FEDERAL

☐ JICARILLA

☐ NAVAHO

George S. Zupke

DEPUTY OIL & GAS INSPECTOR

SITE ASSESSMENT

1) Groundwater Depth:

< .50'

JUNE 9 1995 Ranking Score

Basis: LOCATION CLOSE TO RIVER, WTR TABLE @ SURFACE

20

2) Wellhead Protection Area:

Distance To

Water Sources: > 1000' Private Domestic Water Sources: > 200'

Basis: NO FRESH WTR EXTRACTION PRIVATE OR DOMESTIC CLOSE

0

3) Distance To Surface Body of Water:

± 1000'

Basis: SAN JUAN RIVER APPROX 1000' NORTH

10

Total Score:

30

Soil Characteristic

☒ Highly Contaminated/Saturated
FRESH WTR IN PIT

☐ Unsaturated Contaminated

RANKING CRITERIA

Depth to Groundwater	Wellhead Protection Area	Distance to Surface Water Body
	<1000' from water source or < 200' from private domestic water source	
Score	Score	Rank
<50 ft 20	yes 20	<200' horiz 20
<50 - 99 10	no 0	200 - 1000' horiz 10
>100 ft 0		>1000' horiz. 0

GUIDELINE REMEDIATION LEVELS

	Total Ranking Score		
	>19	10-19	0-9
Benzene (ppm)	10	10	10
BTEX (ppm)	50	50	50
Field Headspace			
Method for BTEX	100	100	100
TPH (ppm) **	100	1,000	5,000

** Concentration above background

DEFINITION OF CONTAMINATION

Depth Excavated: 6-8-93

Full Excavation: ☐ Maximum Extent Practicable

PIT HAS GROUND WTR T.O. IT

ALL SAMPLE RESULTS ARE SHOWN ON "SAMPLE RESULTS NOTES" FORM

Groundwater Encountered:

Yes ☒ No ☐

If yes, approximate depth: FRESH WTR IN PIT

Groundwater Sampling? ☒ Yes ☐ No

Where was gw sample taken? IN MIDDLE OF PIT

Attach GW Sample Results

NOTES:

10/27

REMEDIATION PROFILESoil Treated Onsite ☐Date Remediation Started: 10-26-93☒ In Situ Bio☐ w/vapor venting☐ Landfarmed☐ CompostedDate: 10-26-93

Description

Amount/Rate

Date: _____

Description

Amount/Rate

Tilled	TURNED SOIL UP TO 3' w/ BACKHOLE			
Nutrients	PHOSPH 25-41-4	20 #		
Moisture				
Bulking Agent				
Organic Material				

Date: _____

Description

Amount/Rate

Date: _____

Description

Amount/Rate

Tilled				
Nutrients				
Moisture				
Bulking Agent				
Organic Material				

ALL SAMPLE RESULTS ARE SHOWN ON "SAMPLING RESULTS NOTES" FORM

SOIL TREATED/HANDLED OFFSITE**TO SITE (ATTACH MANIFEST)**

Where Treated: _____

Type of Land (Fed/Nav/Jic/State/Fee): _____

Quantity Moved: _____

Quantity Disposed At Envirotech: _____

FROM SITE (ATTACH MANIFEST)

To This Location From: _____

Type of Land (Fed/Nav/Jic/State/Fee): _____

Quantity Moved: _____

FINAL CLOSUREBTEX: ND ppm (From Headspace Analysis)TPH: 6.5 ppm (From Lab Results)Revegetated: yes ☐ no ☐Active Well or Facility Pad: yes ☐ no ☐NOTES: 6-8-93 - GROUND WATER @ SURFACE, PULLED WATER SAMPLEFOR TPH/BTEX. LAB RESULTS INDICATED BTEX @ ND w/ TPH @ 6.5 ppm9-30-93 - GW SUBSIDED ± 18" BELOW SURFACE, PULLED TPH & OUM SAMPLES10-25-93 - PULLED BACK GROUND TPH SOIL SAMPLE 150' SSE FROM WH. 10-26-10-28-93 EXCAVATEDAREA w/ FLINT BACKHOLE - CONTAMINATION CONFINED TO PIT AREA. TURNED SOIL UP TO 3' DEPTH (6" ABOVEGW) FEATURED w/ JOE. AREA EXCAVATED 29' X 32' X 3' - MIXED IN SOIL AROUND BERMWALL. BERM - CONTAMINATED AREA.

20627

NOTES: 9.22.94 - RAW SPT. TPH Composite : OUM ASSESS-
MENT ON PIT. OUM : TPH LEVELS BELOW REQUIRE-
MENTS. PREPARE TO CLOSE PIT.

12-21-94 - CLOSED PIT - CONTOURED P: A LOCATION.

FILE
Сурьсо

SALMON 1

6-8-93

DATE COMPLETED:



- o SOIL SAMPLE LOCATION

- ## A BACKGROUND SAMPLE LOCATION

PIT CLOSURE DOCUMENTATION - SAMPLING RESULTS NOTES

LOCATION OF PIT: Salmon 1 TYPE OF PIT: BOP

DESCRIPTION OF SAMPLE	SAMPLE EVENT # 1	SAMPLE EVENT # 2	SAMPLE EVENT # 3	SAMPLE EVENT # 4	SAMPLE EVENT # 5	SAMPLE EVENT # 6	SAMPLE EVENT # 7	SAMPLE EVENT # 8
DATE OF SAMPLE	6-8-93	9-30-93	10-25-93	10-26-93	10-26-93	10-26-93	10-26-93	10-26-93
LOCATION OF SAMPLE	MIDDLE	BOP	15' SSE OF WH BACKGROUN	5' FROM SOUTHWEST	15' FROM SOUTHWEST	5' FROM WEST	15' FROM WEST	5' FROM WEST
TYPE OF SAMPLE: (GRAB/COMPOSITE)	BOP	9PT SOIL COMPOSITE	BACKGROUN	SOUTHWEST OF PIT	SIDE OF PIT	SIDE OF PIT	SIDE OF PIT	SIDE OF PIT
DEPTH OF SAMPLE(S)	WTR	0-3'	0-3'	0-3'	0-3'	0-3'	0-3'	0-3'
TEMPERATURE OF SAMPLE	SURFACE	67°	61°	61°	62°	60°	61°	61°
FIELD METHOD RESULTS (PPMS)		16	3	416	5	3	0	0
TPH VAPORS (EQUIV UNITS)		147	47	47	47	47	-	-
BENZENE RESPONSE FACTOR								
ADJUSTED FOR BENZENE EQUIV UNITS								
LAB RESULTS IN PPM: METHOD (418.1 OR MOD 8018)	418.1	418.1		196				
TPH	6.5	1150						
NOTES	PULLED SAMPLE FOR TPH/1075X PULLED WTR. SAMPLE FROM MIDDLE OF PIT AREA BTEX-ND	CW LEVEL T-19" BELOW SURFACE, PULLED TPH SOIL ANAL.	SOIL CLEAN	HOTSPOT ON SOUTH SIDE OF PIT	SOIL CLEAN	SOIL CLEAN	NO OIL DOWN	NO OIL DOWN

PIT CLOSURE DOCUMENTATION - SAMPLING RESULTS NOTES

LOCATION OF PIT

Salmon # 1

TYPE OF PIT:

BDP

DESCRIPTION OF SAMPLE	SAMPLE EVENT # 9	SAMPLE EVENT # 10	SAMPLE EVENT # 11	SAMPLE EVENT # 12	SAMPLE EVENT # 13	SAMPLE EVENT #	SAMPLE EVENT #	SAMPLE EVENT #
DATE OF SAMPLE	10-26-93	9/22/94						
LOCATION OF SAMPLE	5' from East Side of PIT	BDP						
TYPE OF SAMPLE: (GRAB/COMPOSITE)	COMPOSITE	5 PT COMPOSITE						
DEPTH OF SAMPLE(S)	0-3'	0-3'						
TEMPERATURE OF SAMPLE	60°	76°						
FIELD METHOD RESULTS (PPMS)								
TPH VAPORS (EQUIV UNITS)	0	3						
BENZENE RESPONSE FACTOR	-	.47						
ADJUSTED FOR BENZENE EQUIV UNITS		1						
3 RESULTS IN PPM: METHOD (418.1 OR MOD 8016)		418.1						
TPH		61						
NOTES	NO DN OWN	RESAMPLED PIT						

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 418.1Conoco Inc.

Project: Soil TPH
Matrix: Soil
Condition: Intact/Cool

Date Reported: 09/29/94
Date Sampled: 09/22/94
Date Received: 09/22/94
Date Extracted: 09/26/94
Date Analyzed: 09/27/94

Sample ID	Lab ID	Result (mg/kg)	Detection Limit
Salmon #1 DHP #1	G01617	71	20
Salmon #1 DHP #2	G01618	ND	17
Salmon #1 BDP	G01619	61	17

ND - Analyte not detected at stated detection level.

References:

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

Analyst: Anna Schaefer

Reviewed: RP