

3R - 74

REPORTS

DATE:

1999

**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

March 29, 2000

RECEIVED

MAR 31 2000

Oil Conservation Division

Certified: P 895 114 539

Bill Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

**RE: 1999 Annual Groundwater Investigation and Remediation Reports
San Juan Basin, New Mexico**

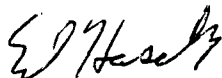
Dear Mr. Olson:

As required in Burlington Resources' approved Groundwater Investigation and Remediation Plan dated August, 1998, enclosed are the 1999 annual reports for Burlington's groundwater impact sites in the San Juan Basin. Separate reports are enclosed for the following locations:

Cozzens B#1
Fogelson #4-1
Hampton #4M
Johnson Federal #4 Metering Station
Standard Oil Com. #1
Taylor Com. #2A

If you have questions or additional information is needed, please contact me at (505) 326-9841.

Sincerely,



Ed Hasely
Sr. Staff Environmental Representative

Attachments - Groundwater Investigation and Remediation Reports

cc: Denny Foust - NMOCD Aztec
Bruce Gantner - BR
PNM - Maureen Gannon (Cozzens B#1, Hampton #4M)
EPFS - Scott Pope (Fogelson #4-1, Johnson Fed. #4, Standard Oil Com.#1)
Facility Files
Correspondence

BURLINGTON RESOURCES 1999 ANNUAL GROUNDWATER REPORT

Standard Oil Com. #1

SITE DETAILS

Location: Unit Letter N, Section 36, Township 29N, Range 9 W; San Juan County, New Mexico
Land Type: State

PREVIOUS ACTIVITIES

El Paso Field Services excavated approximately 60 cubic yards from their pit at this location in 1994 and installed a monitoring well in 1995.

Burlington Resources conducted the initial site assessment of our pit in August, 1998. Excavation of approximately 1140 cubic yards of impacted soil to a depth of 31 feet occurred in December, 1998.

1999 ACTIVITIES

Clean overburden was used to partially backfill the excavation. The landfarm associated with the pit closure work tested below cleanup standards and was used to completely backfill the excavation. Vertical extent drilling encountered groundwater at approximately 26 feet and a groundwater monitoring well was installed on August 11, 1999. After developing the well and allowing it to stabilize for one week, the well was purged and sampled on August 18, 1999.

Quarterly groundwater monitoring continued through 1999. Groundwater analytical data are presented in Table 1. A site map is presented as Figure 1.

CONCLUSIONS

Analytical results of groundwater sampling from the monitoring well in the 4th quarter of 1999 show levels of benzene and total xylenes above New Mexico Groundwater Standards.

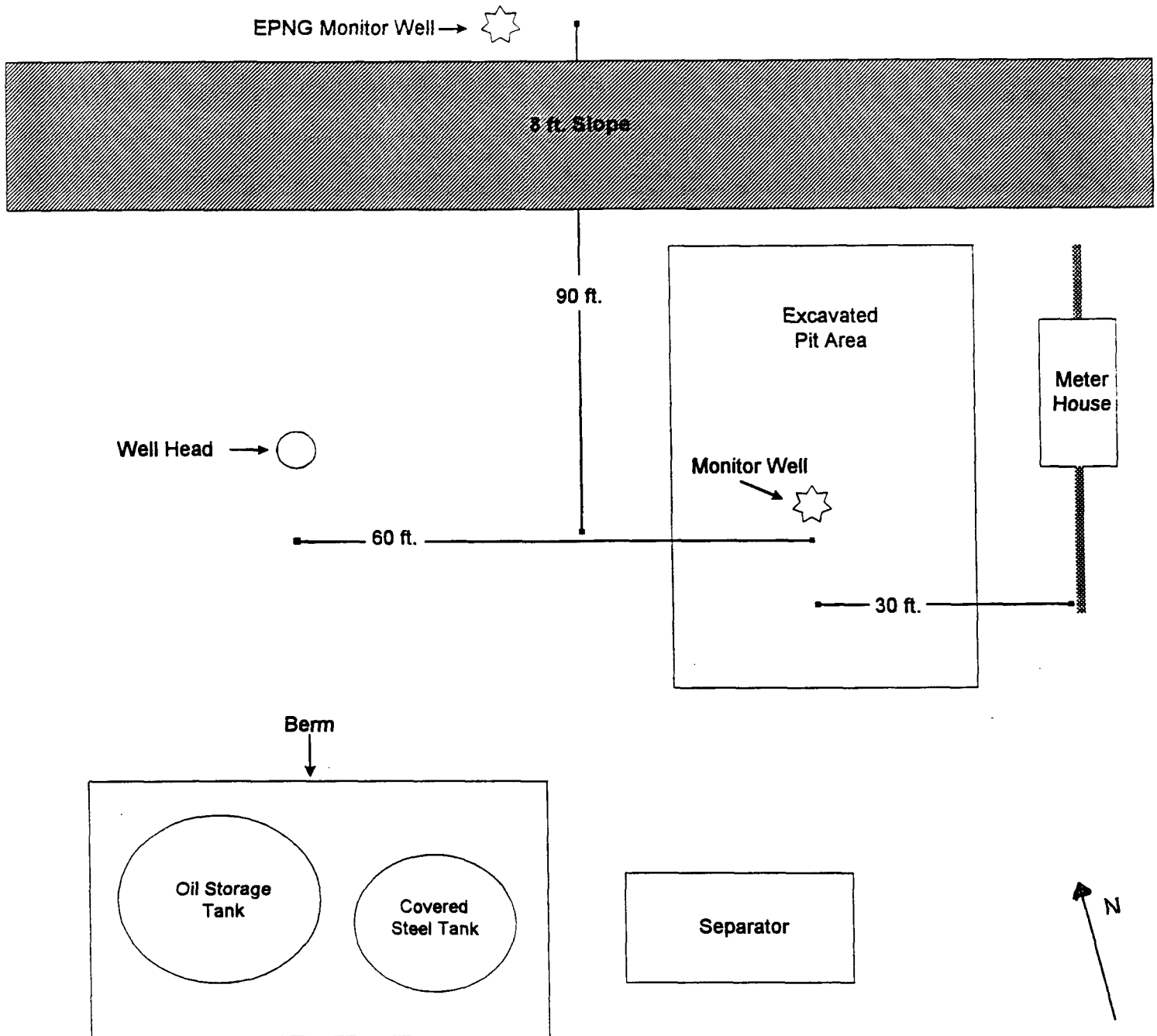
RECOMMENDATIONS

- Burlington Resources proposes to continue quarterly sampling at this site.
- Burlington Resources will initiate discussions with El Paso Field Service to assure proper assessment and closure of this site.

Attachments: Figure 1 - Site Map
Table 1 - Groundwater Sampling Results Summary
1999 Groundwater Analytical
Letter to Olson dated September 10, 1999 including the Drilling Log/Wellbore Diagram

Figure 1

BURLINGTON RESOURCES
STANDARD OIL COM NO. 1
MONITOR WELL INSTALLATION



Not to scale - distances are approximate

Table 1

Groundwater Monitoring Well Sampling

Well Name	MW #	Sample Date	B (ppb)	T (ppb)	E (ppb)	X (ppb)	BTEX (ppb)	DTW (ft)
<i>Standard</i>			10	750	750	620		
Standard Oil Com #1 (EPNG)	1	8/18/99	1500	135	106	586	2327	
		12/1/99	78	170	100	1300	1648	28.14
		1/19/00	180	1100	610	5200	7090	28.14

1999 GROUNDWATER ANALYTICAL RESULTS

Note well diameter if not one of the above.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	219701
Sample ID:	WS - 1	Date Reported:	08-19-99
Chain of Custody:	7285	Date Sampled:	08-18-99
Laboratory Number:	F932	Date Received:	08-18-99
Sample Matrix:	Water	Date Analyzed:	08-19-99
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	1,500	10	1.8
Toluene	135	10	1.7
Ethylbenzene	106	10	1.5
p,m-Xylene	409	10	2.2
o-Xylene	177	10	1.0

Total BTEX 2,330

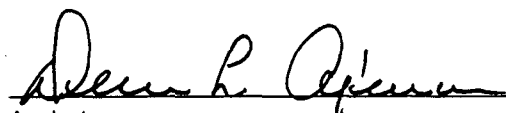
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Standard Oil Com #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

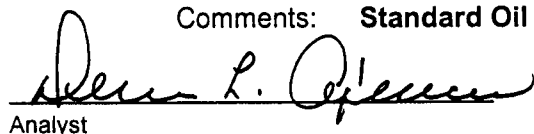
CATION / ANION ANALYSIS

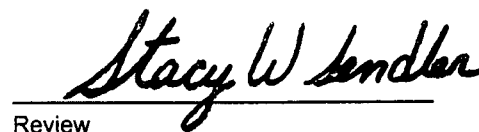
Client:	Burlington	Project #:	219701
Sample ID:	WS - 2	Date Reported:	08-19-99
Laboratory Number:	F933	Date Sampled:	08-18-99
Chain of Custody:	7285	Date Received:	08-18-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-19-99
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.10	s.u.		
Conductivity @ 25° C	16,170	umhos/cm		
Total Dissolved Solids @ 180C	8,070	mg/L		
Total Dissolved Solids (Calc)	7,930	mg/L		
SAR	18.5	ratio		
Total Alkalinity as CaCO3	780	mg/L		
Total Hardness as CaCO3	1,850	mg/L		
Bicarbonate as HCO3	780	mg/L	12.78	meq/L
Carbonate as CO3	<1	mg/L	0.00	meq/L
Hydroxide as OH	<1	mg/L	0.00	meq/L
Nitrate Nitrogen	10.5	mg/L	0.17	meq/L
Nitrite Nitrogen	1.72	mg/L	0.04	meq/L
Chloride	192	mg/L	5.42	meq/L
Fluoride	1.46	mg/L	0.08	meq/L
Phosphate	8.6	mg/L	0.27	meq/L
Sulfate	4,700	mg/L	97.85	meq/L
Iron	0.038	mg/L		
Calcium	650	mg/L	32.44	meq/L
Magnesium	53.7	mg/L	4.42	meq/L
Potassium	8.5	mg/L	0.22	meq/L
Sodium	1,830	mg/L	79.61	meq/L
Cations			116.68	meq/L
Anions			116.61	meq/L
Cation/Anion Difference			0.06%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Standard Oil Com #1.


Analyst


Review

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Burlington	Project #:	219701
Sample ID:	WS - 3	Date Reported:	08-19-99
Laboratory Number:	F934	Date Sampled:	08-18-99
Chain of Custody:	7285	Date Received:	08-18-99
Sample Matrix:	Water	Date Analyzed:	08-19-99
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	5.20	0.01	21
Cadmium	ND	0.001	0.11
Chromium	0.05	0.01	0.60
Lead	ND	0.05	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.01	0.14

ND - Parameter not detected at the stated detection limit.

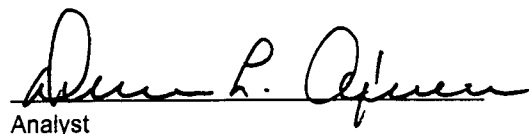
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

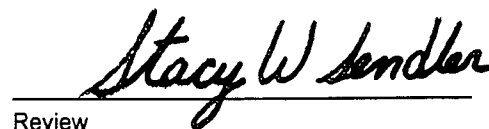
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Standard Oil Com #1.**


Analyst


Review

7285

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615



Water Sampling Data

Location No. _____

Serial No. WSD

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 12-1-99Project Name Burlington Poly Project No. 02900025Project Manager Cecil J. By Phase/Task No. 35Site Name Standard Oil Com #1

Sampling Specifications

Requested Sampling
 Depth Interval (feet) _____
 Requested Wait Following
 Development/Purging (hours) _____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) _____
 Initial Water Depth (feet) _____
 Nonaqueous Liquids Present (Describe) _____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (feet)	Ball	Final Water Depth (feet)	

Container Types: G = Clear Glass; A = Amber Glass; P = Plastic; ☒ VOA Vial (Glass); O = Other (Specify)
 Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; C = Other (Specify); --- = None

Sample Containers

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (ml)	Yes	No		Yes	No	
BTEX	2	VOA	40		X	HCL	V		

Filter Type _____

Chain-of-Custody Form Number _____

Comments _____

Signature Cecil J. By Date 12-1-99 Reviewer _____ Date _____



2708-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : (none)
PROJECT NAME : (none)

PINNACLE I.D.: 912012

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
04	SOC1299-1	AQUEOUS	12/1/99	NA	12/6/99	10
05	JF1299-1	AQUEOUS	12/1/99	NA	12/7/99	100
PARAMETER		DET. LIMIT	UNITS	SOC1299-1	JF1299-1	
BENZENE		0.5	UG/L	78	4700	
TOLUENE		0.5	UG/L	170	1300	
ETHYLBENZENE		0.5	UG/L	100	900	
TOTAL XYLENES		0.5	UG/L	1300	10000	
METHYL-T-BUTYL ETHER		2.5	UG/L	< 25	< 250	

SURROGATE:

BROMOFLUOROBENZENE (%)

86

109

SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:

N/A

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 12-2-99

PAGE: 1 OF 1

PLU Accession # 912012

PROJECT MANAGER: Cecil Eby

COMPANY: Philip Env. Svcs

ADDRESS: 4000 Monroe

Farmington, NM 87401

PHONE: 505-362-2262

FAX:

BILL TO: Philip Env. Svcs

COMPANY:

ADDRESS:

SAMPLE ID DATE TIME MATRIX LAB ID.

C021299-1-2 12/2 AQ A

C021299-1-1 02

F051299-1 03

S0C1299-1 04

JF1299-1 05

Petroleum Hydrocarbons (418.1) TRPH
(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge & Trap

8021 (BTEX)/8015 (Gasoline) MTBE

(8021 (BTEX)) ☐ MTBE ☐ TMB ☐ PCE

8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8280 (TCL) Volatile Organics

8280 (Full) Volatile Organics

8280 (CUST) Volatile Organics

8280 (Landfill) Volatile Organics

Pesticides /PCB (608/8081/8082)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (825/8270)

Polynuclear Aromatics (610/8310/8270-SIMS)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

PROJECT INFORMATION

PROJ. NO.:

PROJ. NAME:

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS

CUSTODY SEALS

RECEIVED INTACT

BLUE ROPE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

RUSH ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☐CERTIFICATION REQUIRED: ☐ NM ☐ SDMA ☐ OTHERMETHANOL PRESERVATION ☐COMMENTS: FIXED FEE ☐

RELINQUISHED BY:

Signature: Cecil Eby Time: 12-2-99

Printed Name: Cecil Eby Date: 12-2-99

RELINQUISHED BY:

Signature: Time:

Printed Name: Date:

Company: See memo side (Pence Maguire)

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

Company: Pinnacle Laboratories Inc.

RECEIVED BY: (LAB) 2.

Signature: Time: 1/30

Printed Name: Date: 1/30

Company: Pinnacle Laboratories Inc.

**LETTER TO MR. OLSON
DATED SEPTEMBER 10, 1999**

BURLINGTON RESOURCES

SAN JUAN DIVISION

September 10, 1999

Certified Mail: Z 186 732 855

Bill Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

**RE: Standard Oil Com #1
Unit Letter N, Section 36, Township 29N, Range 9W
Notification of Groundwater Impact**

Dear Mr. Olson:

As per the e-mail notification dated August 31, 1999 (Mr. Hasely to Mr. Olson), this letter is Burlington Resources' (BR) written notification of groundwater impact at the subject location. The final analytical results and final paperwork from the consultant did not make it to my attention until recently.

Due to El Paso having groundwater impacts at this location, BR conducted an initial assessment of an earthen pit that was no longer in use on the Standard Oil Com #1 location. The former separator/tank drain earthen pit had levels above closure standards and BR excavated soils to 31 feet below ground surface. Groundwater seeped into the excavation at this depth. Soil samples from the bottom of the excavation were collected and tested above pit closure standards. Clean overburden was pushed into the excavation to partially backfill the hole. The excavated soils were landfarmed until the soils tested below cleanup standards, and then the landfarmed soils were used to finish backfilling the excavation. BR conducted vertical extent determination in the center of BR's former earthen pit and encountered groundwater at approximately 26 feet. BR installed a temporary groundwater monitoring well. After developing the well and allowing it to stabilize for one week, the well was purged and sampled on August 18, 1999. The sample results are as follows:

Benzene	1500 ppb
Toluene	135 ppb
Ethylbenzene	106 ppb
Total Xylenes	586 ppb

Included with this letter are the original Pit Remediation and Closure Reports for the BR earthen pit along with the analytical results of the soil testing. Also attached are the groundwater lab analysis, the drilling log, the monitoring well installation record, and a location diagram.

The temporary monitoring well will be completed as permanent. BR will conduct future activities at the site pursuant to Burlington Resources' Groundwater Management Plan, and it is our intention to work in conjunction with El Paso to assure proper assessment and closure. If you have questions or additional information is needed, please contact me at (505) 326-9841.

Sincerely,



Ed Hasely
Sr. Staff Environmental Representative

Attachments: Pit Remediation and Closure Report
Drilling Log/Wellbore Diagram
Analytical Results - Groundwater
Location Diagram

cc: Denny Foust - NMOCD Aztec
Sandra Miller - El Paso
Ken Raybon
Ward Arnold
Bruce Gantner
Facility File
Correspondence

Pit Remediation and Closure Report

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Azusa, NM 88211
District III
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Buckington Resources Telephone: (505) 326-9700
Address: 3535 E. 30th Farmington NM 87402
Facility or: Standard Oil Com #1
Well Name _____
Location: Unit or qtr/qtr sec N sec 36 T 29N R 9W county San Juan
Pit Type: Separator X Dehydrator _____ other Tank Drain
Land Type: BLM _____, State X, Fee _____, Other _____

Pit Location: Pit dimensions: length 20, width 10, depth 1
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: 60 ft
Direction from reference: 75 Degrees X East North _____
_____ of _____
_____ West South X

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) <u>20</u>
---	---

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) No (0 points) <u>0</u>
--	---

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 1000 feet (10 points) Greater than 1000 feet (0 points) <u>0</u>
---	---

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 12/10/98 Date Completed: _____

Remediation Method: Excavation ☒ Approx. cubic yards 1140
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite Standard Oil Co. #1A - S. 36-29N-9W
(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Soils were removed to an approximate depth of 31 ft which was practical extent. Soil samples were collected. Groundwater seeped into excavation. The excavation was partially backfilled with clean overburden, the completely backfilled with the remediated landfarm soil. A groundwater monitoring well was installed in the center of the former excavation.

Ground Water Encountered: No _____ Yes ☒ Depth 31 ft

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Bottom of excavation

Sample depth 31 ft

Sample date 12/14/98 Sample time 2:30 pm

Sample Results

Benzene(ppm) 1.7

Total BTEX(ppm) 126.9

Field headspace(ppm) 321

TPH 2160

Ground Water Sample: Yes _____ No ☒ (If yes, attach sample results)

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

DATE 9/8/99

SIGNATURE Ed Hasely

PRINTED NAME
AND TITLE

Ed Hasely
Sr. Staff Environmental Rep.



PRODUCTION PIT REMEDIATION FORM

WELL NAME: Standard Oil Con#1 WELL No.: _____ DP No.: _____

OPERATOR NAME: Burlington Resources P/L DISTRICT: _____

COORDINATES: LETTER: N SECTION: 36 TOWNSHIP: 029N RANGE: 009W

PIT TYPE: DEHYDRATOR: X LOCATION DRIP: _____ LINE DRIP: _____ OTHER: _____

FOREMAN No.: Ward Arnold ~~Ward Arnold~~ AREA: Large Canyon

INITIAL REMEDIATION ACTIVITIES

DATE: 12-10-98 TIME: 7:00

GROUND WATER ENCOUNTERED? NO / N

INSIDE NMOCD ZONE

FINAL EXCAVATION DIMENSIONS: LENGTH: 53 WIDTH: 41 DEPTH: 31

APPROX. CUBIC YARDS: 2,642 FINAL PID READING: 321 ppm

REMEDICATION METHOD: ONSITE LANDFARM X 840 cu.yd

OFFSITE LANDFARM X LOCATION: Standard Oil Con#1A
OTHER _____ 300 cu.yd

LANDFARM DIMENSIONS: LENGTH: _____ WIDTH: _____

OUTSIDE NMOCD ZONE

FINAL SAMPLE DEPTH: _____ FINAL PID READING: _____

EXCAVATION SAMPLING INFORMATION

IF PID READINGS ARE LESS THAN 100 PPM, SAMPLE TAKEN DURING EXCAVATION)

SAMPLE DATE: _____ SAMPLE NOS _____

SAMPLE ANALYSIS: TPH METHOD 8015 MODIFIED

IF PID READINGS ARE GREATER THAN 100 PPM, NO SAMPLE WILL BE TAKEN DURING EXCAVATION.
THE EXCAVATION WILL BE SAMPLED PRIOR TO BACKFILLING (SEE ADDITIONAL SAMPLING SECTION).

REMARKS: TPH - Bottom 1103 ppm Contaminated Soil = 1,140 cu.yd.
TPH - Composite 241 ppm Clean Soil = 1,502 cu.yd.

SIGNATURE: Paul Thompson

DATE: 12/10/98

ADDITIONAL REMEDIATION ACTIVITIES

SOIL TILLING

DATE: _____ PID READING: _____ SIGNATURE: _____

REMARKS: _____

DATE: _____ PID READING: _____ SIGNATURE: _____

REMARKS: _____

DATE: _____ PID READING: _____ SIGNATURE: _____

REMARKS: _____

DATE: _____ PID READING: _____ SIGNATURE: _____

REMARKS: _____

ADDITIONAL SAMPLING INFORMATION

EXCAVATION SAMPLING(IF REQUIRED)

IF NO SAMPLE WAS TAKEN DURING EXCAVATION, THE EXCAVATION WILL BE SAMPLED BEFORE BACKFILLING).

SAMPLE DATE: _____ SAMPLE NOS _____

SIGNATURE: _____

IF PID READINGS ARE LESS THAN 100 PPM , SAMPLE ANALYSIS: TPH METHOD 8015 MODIFIED

IF PID READINGS ARE GREATER THAN 100 PPM, SAMPLE ANALYSES: BTEX METHOD 8020 AND TPH METHOD 8015 MODIFIED

SOIL REMEDIATION VERIFICATION SAMPLE

SAMPLE DATE: _____ SAMPLE NOS _____

SIGNATURE: _____

SAMPLE ANALYSIS: TPH METHOD 8015 MODIFIED

BACKFILLING INFORMATION

DATE: _____ TIME: _____

BACKFILL SOURCE: ONSITE LANDFARM: _____

OFFSITE SOURCE: _____ APPROX. VOLUME: _____

REMARKS: _____

SIGNATURE: _____

DATE: _____



Certificate of Analysis No. 9812099-01a

807 S. CARLTON AVE.
FARMINGTON, NEW MEXICO 87401
PHONE (505) 326-2588
FAX (505) 326-2875

Philip Environmental Services
4000 Monroe Road
Farmington, NM 87401
Attn: Robert Thompson

Date: 12/29/98

Project: BR Pits
Site: Farmington
Sampled By: R. Thompson
Sample ID: Standard Oil COM #1-BOT

Project No: 20440

Matrix: Soil

Date Sampled: 12/14/98

Date Received: 12/15/98

Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	1700	1000 (P)	µg/Kg
Toluene	23000	1000 (P)	µg/Kg
Ethylbenzene	9200	1000 (P)	µg/Kg
Total Xylene	93000	1000 (P)	µg/Kg
Total Volatile Aromatic Hydrocarbons	126900		µg/Kg

Surrogate**% Recovery**

1,4-Difluorobenzene

100

4-Bromofluorobenzene

127

Method 8020A***

Analyzed by: AA

Date: 12/19/98

ND-Not Detected

MI-Matrix Interference

(P)-Practical Quantitation Limit

Notes:

*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

**Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

Comments: Sample contains petroleum hydrocarbons from C10 - C24 that do not resemble a diesel pattern. (C10 - C24)RR

Billy G. Rich, Lab Director



Certificate of Analysis No. 9812099-01b

307 S. CARLTON AVE.
FARMINGTON, NEW MEXICO 87401
PHONE (505) 326-2588
FAX (505) 326-2875

Philip Environmental Services
4000 Monroe Road
Farmington, NM 87401
Attn: Robert Thompson

Date: 12/29/98

Project: BR Pits
Site: Farmington
Sampled By: R. Thompson
Sample ID: Standard Oil COM #1-BOT

Project No: 20440

Matrix: Soil

Date Sampled: 12/14/98

Date Received: 12/15/98

Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	2000	100 (P)	mg/kg
Surrogate	% Recovery		
1,4-Difluorobenzene	83		
4-Bromofluorobenzene	223MI		
Method 8015B*** for Gasoline			
Analyzed by: AA			
Date: 12/19/98			
Total Petroleum Hydrocarbons-Diesel	160	10 (P)	mg/kg
Surrogate	% Recovery		
n-Pentacosane	96		
Method 8015B*** for Diesel			
Analyzed by: RR			
Date: 12/18/98			

MI-Matrix interference

(P)-Practical Quantitation Limit

ND-Not Detected

Notes:

*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

**Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed

***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

Comments: Sample contains petroleum hydrocarbons from C10 - C24 that do not resemble a diesel pattern. (C10 - C24)RR

Billy G. Rich, Lab Director



Certificate of Analysis No. 9812099-02a

807 S. CARLTON AVE.
FARMINGTON, NEW MEXICO 87401
PHONE (505) 326-2588
FAX (505) 326-2875

Philip Environmental Services
4000 Monroe Road
Farmington, NM 87401
Attn: Robert Thompson

Date: 12/29/98

Project: BR Pits
Site: Farmington
Sampled By: R. Thompson
Sample ID: Standard Oil COM #1-WALL

Project No: 20440
Matrix: Soil
Date Sampled: 12/14/98
Date Received: 12/15/98

Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Benzene	ND	5.0 (P)	µg/Kg
Toluene	5.5	5.0 (P)	µg/Kg
Ethylbenzene	44	5.0 (P)	µg/Kg
Total Xylene	540	5.0 (P)	µg/Kg
Total Volatile Aromatic Hydrocarbons	589.5		µg/Kg

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	133

Method 8020A***

Analyzed by: AA

Date: 12/16/98

ND-Not Detected

MI-Matrix Interference

(P)-Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

Comments: Sample contains petroleum hydrocarbons from C10 - C24 that do not resemble
a diesel pattern. (C10 - C24) RR

Billy G. Rich, Lab Director



Certificate of Analysis No. 9812099-02b

807 S. CARLTON AVE.
FARMINGTON, NEW MEXICO 87401
PHONE (505) 326-2588
FAX (505) 326-2875

Philip Environmental Services
4000 Monroe Road
Farmington, NM 87401
Attn: Robert Thompson

Date: 12/29/98

Project: BR Pits
Site: Farmington
Sampled By: R. Thompson
Sample ID: Standard Oil COM #1-WALL

Project No: 20440
Matrix: Soil
Date Sampled: 12/14/98
Date Received: 12/15/98

Analytical Data

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	12	0.5 (P)	mg/kg
Surrogate	% Recovery		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	533MI		
Method 8015B*** for Gasoline			
Analyzed by: AA			
Date: 12/16/98			
Total Petroleum Hydrocarbons-Diesel	190	10 (P)	mg/kg
Surrogate	% Recovery		
n-Pentacosane	80		
Method 8015B*** for Diesel			
Analyzed by: RR			
Date: 12/18/98			

MI-Matrix Interference (P)-Practical Quantitation Limit

D-Diluted, limits not applicable

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th Ed
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

Comments: Sample contains petroleum hydrocarbons from C10 - C24 that do not resemble
a diesel pattern. (C10 - C24) RR

Billy G. Rich, Lab Director

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2327

[illegible]

Relinquished by:

Received By:

Relinquished by:		Date		Time	
Signature	Date	Time	Signature	Date	Time
[Signature]	12/15/98	0700	[Signature]	12/15/98	11:04 AM
[Signature]	12/15/98	11:00 AM	[Signature]	12/15/98	11:00 AM

Airbill No.		
Samples Iced: <input type="checkbox"/> Yes <input type="checkbox"/> No	Carrier:	
Preservatives (ONLY for Water Samples) <input type="checkbox"/> Cyanide Sodium hydroxide (NaOH) <input type="checkbox"/> Volatile Organic Analysis Hydrochloric acid (HCl) <input type="checkbox"/> Metals Nitric acid (HNO ₃) <input type="checkbox"/> TP11 (118, 1) Sulfuric acid (H ₂ SO ₄) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Other (Specify)	Shipping and Lab Notes:	



Hydrocarbon Test Kit - Field Data Sheet

Date: 12-14-98

Calibration Time/Date: 200 12-14-98

Operator: DAVID Archuleta

Calibration Temperature: 37.5

Location: Stevens Oil Co. #1

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	#1	10g	2:10	241 ppm				Composite sample
2	#2	10g	2:20	1103 ppm				Bottom sample
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

¹DF = Dilution Factor. e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor. selected for the hydrocarbon contamination at the site.



Hydrocarbon Test Kit - Field Data Sheet

Date: 12/10/98

Calibration Time/Date: 10:30 12/10/98

Operator: _____

Calibration Temperature: 23.5 C

Location: Standard Cal Con #1

No.	Sample ID	Weight	Time/Date	Reading (ppm)	DF ¹	RF ²	Actual (ppm)	Comments
1	1	10g	12:17 12/10/98	235 ppm				error Grates then 10g between calibration and the sample.
2	2	10g	13:17 12/10/98	1276 ppm				
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

¹DF = Dilution Factor. e.g., for 5 gram soil sample DF=10g/5g=2, and actual concentration equals reading times DF (reading (ppm) x DF = actual concentration).

²RF = Response Factor, selected for the hydrocarbon contamination at the site.



SITE SKETCH

Serial No. SS-

Title

Project Name BR PITS

Project No. 20440

Project Manager Robert Thompson

Phase/Task No. 4000.77

Client Company Burlington Resources

Site Name Standard oil Can #1

Site Address

(Include north arrow and scale or dimensions, if available, preprint CAD drawing of site on this form.)



Well
head
⊗

meter
run
□

□
Excavated
pit

Sketched by (signature)

Date



AGRA Earth & Environmental
ENGINEERING GLOBAL SOLUTIONS

**AGRA Earth &
Environmental, Inc.**
2060 Afton Place
Farmington, NM 87401
Tel: (505) 327-7928
Fax: (505) 326-5721

December 15, 1998
AEE Project No. 8529-000203

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401

Attention: Mr. Robert Thompson

**Regarding: Environmental Cleanup Excavation
Burlington Resources Oil and Gas Company
Standard Oil Com # 1 Well Site
1090 Feet FSL and 1850 Feet FWL
Section 36 Township 29 North, Range 9 West, N.M.P.M.
Lease No. B-111221 - Elevation 5683
San Juan County, New Mexico**

Ladies and Gentlemen:

In accordance with the request of Mr. Robert Thompson of Philip Environmental, AGRA Earth and Environmental, Inc. (AEE) personnel visited the referenced site on Friday, December 11, 1998. The purpose of this visit was to observe the existing excavation and provide guidelines for expanding the excavation. The excavation was about 31 feet deep at the time of our site visit. It is understood that the excavation will be expanded laterally until the contaminated soil is removed.

The soils observed consisted of a fairly loose silty sand which exhibited signs of sloughing in the open excavation. The west side of the excavation appeared to be sandstone. It is recommended that in all areas, where equipment will be working in the excavation, the sides of the excavation in the soil be laid-back at an angle not to exceed 2:1 (horizontal to vertical). The sandstone side of the excavation should be laid back at an angle not to exceed $\frac{3}{4}$:1 (horizontal to vertical). The equipment should not enter into the excavation any deeper than is absolutely necessary. In areas where existing facilities prevent the 2:1 layback, the sides may be benched at a minimum of 8 feet horizontal to 8 feet vertical. Work in areas where the benching is used should be for short periods of time as the instability of these areas will increase as the soils begin to dry. Spoils and equipment should be kept away from the edge of the excavation a distance at least equal to the depth of the excavation. The edges of the excavation should be checked regularly for tension cracks or other signs of possible slope failure. Any areas showing signs of slope failure should be repaired prior to personnel or equipment entering the excavation.

We appreciate the opportunity to be of service on this project. If you should have any questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
AGRA Earth & Environmental, Inc.

Kim M. Preston, P.E.
Four Corners Area Manager

Copies: Addressee (3)



Drilling Log/Wellbore Diagram

Soil Boring # MW-1	PROJECT = 9219701	CLIENT NAME: Burlington Resources Standard Oil Com. #1	Page 1 of 2
Date Started: 08/11/99	Location: Largo Canyon, Blanco, New Mexico		
Date Completed: 08/11/99	Elevation: TOC:		
Type of Drill: Mobil B-61	Driller: Matt Cain	Geotech: James Cowles	
Bit Size: 7" Hollow Stem Auger	Helper: Donn Eisenhaure	Proj. Mg.: James Cowles	

Depth ft.	Completion: MW	Sample Type	TPH ppm (8015)	OVM PPM	Lithology	Description
0.0		A			0.0-1.0'	fill dirt/material
2.0		A				
4.0		SS		0.0		
6.0		A				
8.0		SS		0.0		
10.0		A				
12.0		A				
14.0		SS		4.0		
16.0		A				
18.0		A				
20.0		SS		0.0		
22.0		A				
24.0		SS				
26.0		A				
28.0		SS		320.0		
30.0						
32.0						

Legend

A Auger Samples
SS Split Spoon
CS Continuous Sampler
AR Air Rotary Cuttings

Lithology

Fill:
Cobble
Sand
clay
silt

Monitor Well Completion

Cement Grout
Screen PVC
Blank PVC Screen
Sand Pack
Bentonite Seal

Note: All depths are below ground level

MW-1

Soil Boring # MW-1	PROJECT = 9219701	CLIENT NAME: Burlington Resources Standard Oil Com. #1		Page 2 of 2
Date Started:	08/11/99	Location:	Largo Canyon, Blanco, New Mexico	
Date Completed:	08/11/99	Elevation:	TOC:	
Type of Drill:	Mobil B-61	Driller:	Matt Cain	Geotech: James Cowies
Bit Size:	7" Hollow Stem Auger	Helper:	Donn Eisenhaure	Proj. Mg.: James Cowies

[illegible]

Legend:


Sample type:

A	Auger Samples
SS	Split Spoon
CS	Continuous Sampler
AR	Air Rotary Cuttings

Lithology

Fill:
Cobble
Sand
clay
silt

Monitor Well Completion



Cement Grout
 Screen PVC
 Blank PVC Screen
 Sand Pack
 Bentonite Seal

Note: All depths are below ground level

Analytical Results - Groundwater

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	219701
Sample ID:	WS - 1	Date Reported:	08-19-99
Chain of Custody:	7285	Date Sampled:	08-18-99
Laboratory Number:	F932	Date Received:	08-18-99
Sample Matrix:	Water	Date Analyzed:	08-19-99
Preservative:	HgCl2 & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	1,500	10	1.8
Toluene	135	10	1.7
Ethylbenzene	106	10	1.5
p,m-Xylene	409	10	2.2
o-Xylene	177	10	1.0

Total BTEX 2,330

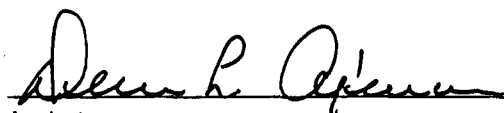
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Standard Oil Com #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	08-19-BTEX QA/QC	Date Reported:	08-19-99
Laboratory Number:	F932	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-19-99
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	L-Cal RE	C-Cal RE	%Diff	Blank Conc.	Detect Limit
		Accept Range 0 - 15%			
Benzene	3.6219E-001	3.6335E-001	0.32%	ND	0.2
Toluene	2.7867E-002	2.7872E-002	0.02%	ND	0.2
Ethylbenzene	4.1931E-002	4.1981E-002	0.12%	ND	0.2
p,m-Xylene	3.6569E-002	3.6576E-002	0.02%	ND	0.2
o-Xylene	3.1955E-002	3.2051E-002	0.30%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	1,500	1,430	4.7%	0 - 30%
Toluene	135	130	3.8%	0 - 30%
Ethylbenzene	106	102	3.8%	0 - 30%
p,m-Xylene	409	408	0.4%	0 - 30%
o-Xylene	177	170	4.0%	0 - 30%

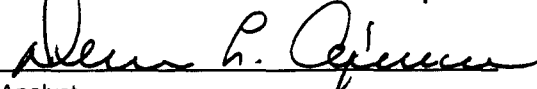
Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Limits
Benzene	1,500	50.0	1,540	99%	39 - 150
Toluene	135	50.0	187	101%	46 - 148
Ethylbenzene	106	50.0	157	101%	32 - 160
p,m-Xylene	409	100.0	507	100%	46 - 148
o-Xylene	177	50.0	228	101%	46 - 148

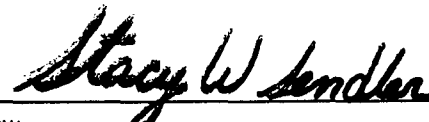
ND - Parameter not detected at the stated detection limit.

* - Administrative Limits set at 80 - 120%.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
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 sample F932.


Analyst


Review

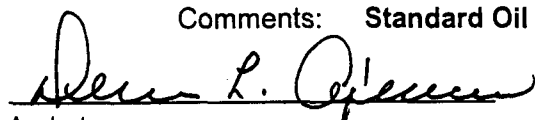
Client: Burlington
Sample ID: WS - 2
Laboratory Number: F933
Chain of Custody: 7285
Sample Matrix: Water
Preservative: Cool
Condition: Cool & Intact

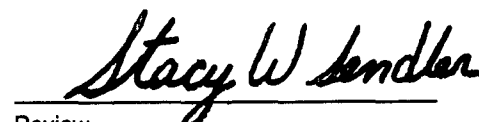
Project #: 219701
Date Reported: 08-19-99
Date Sampled: 08-18-99
Date Received: 08-18-99
Date Extracted: N/A
Date Analyzed: 08-19-99

Parameter	Analytical Result	Units		Units
pH	7.10	s.u.		
Conductivity @ 25° C	16,170	umhos/cm		
Total Dissolved Solids @ 180C	8,070	mg/L		
Total Dissolved Solids (Calc)	7,930	mg/L		
SAR	18.5	ratio		
Total Alkalinity as CaCO3	780	mg/L		
Total Hardness as CaCO3	1,850	mg/L		
Bicarbonate as HCO3	780	mg/L	12.78	meq/L
Carbonate as CO3	<1	mg/L	0.00	meq/L
Hydroxide as OH	<1	mg/L	0.00	meq/L
Nitrate Nitrogen	10.5	mg/L	0.17	meq/L
Nitrite Nitrogen	1.72	mg/L	0.04	meq/L
Chloride	192	mg/L	5.42	meq/L
Fluoride	1.46	mg/L	0.08	meq/L
Phosphate	8.6	mg/L	0.27	meq/L
Sulfate	4,700	mg/L	97.85	meq/L
Iron	0.038	mg/L		
Calcium	650	mg/L	32.44	meq/L
Magnesium	53.7	mg/L	4.42	meq/L
Potassium	8.5	mg/L	0.22	meq/L
Sodium	1,830	mg/L	79.61	meq/L
Cations			116.68	meq/L
Anions			116.61	meq/L
Cation/Anion Difference			0.06%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Standard Oil Com #1.


Analyst


Review

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Burlington	Project #:	219701
Sample ID:	WS - 3	Date Reported:	08-19-99
Laboratory Number:	F934	Date Sampled:	08-18-99
Chain of Custody:	7285	Date Received:	08-18-99
Sample Matrix:	Water	Date Analyzed:	08-19-99
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	5.20	0.01	21
Cadmium	ND	0.001	0.11
Chromium	0.05	0.01	0.60
Lead	ND	0.05	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.01	0.14

ND - Parameter not detected at the stated detection limit.

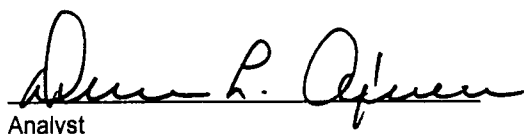
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

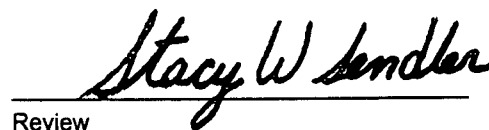
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: Standard Oil Com #1.


Analyst


Review

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-19-TCM QA/QC	Date Reported:	08-19-99
Laboratory Number:	F925	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	08-19-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.01	0.20	0.20	0.0%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.01	0.01	0.01	0.0%	0% - 30%
Lead	ND	ND	0.05	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.01	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.100	ND	0.098	98.0%	80% - 120%
Barium	1.00	0.20	1.20	100.0%	80% - 120%
Cadmium	0.500	ND	0.490	98.0%	80% - 120%
Chromium	0.50	0.01	0.51	100.0%	80% - 120%
Lead	2.00	ND	2.00	100.0%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.100	ND	0.097	97.0%	80% - 120%
Silver	0.50	ND	0.49	98.0%	80% - 120%

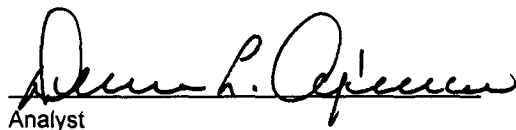
ND - Parameter not detected at the stated detection limit.

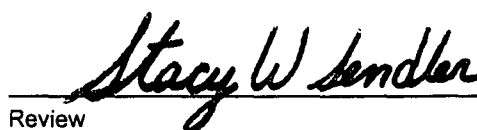
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for samples F925, F928, F931, F934 and F922.


Analyst


Review

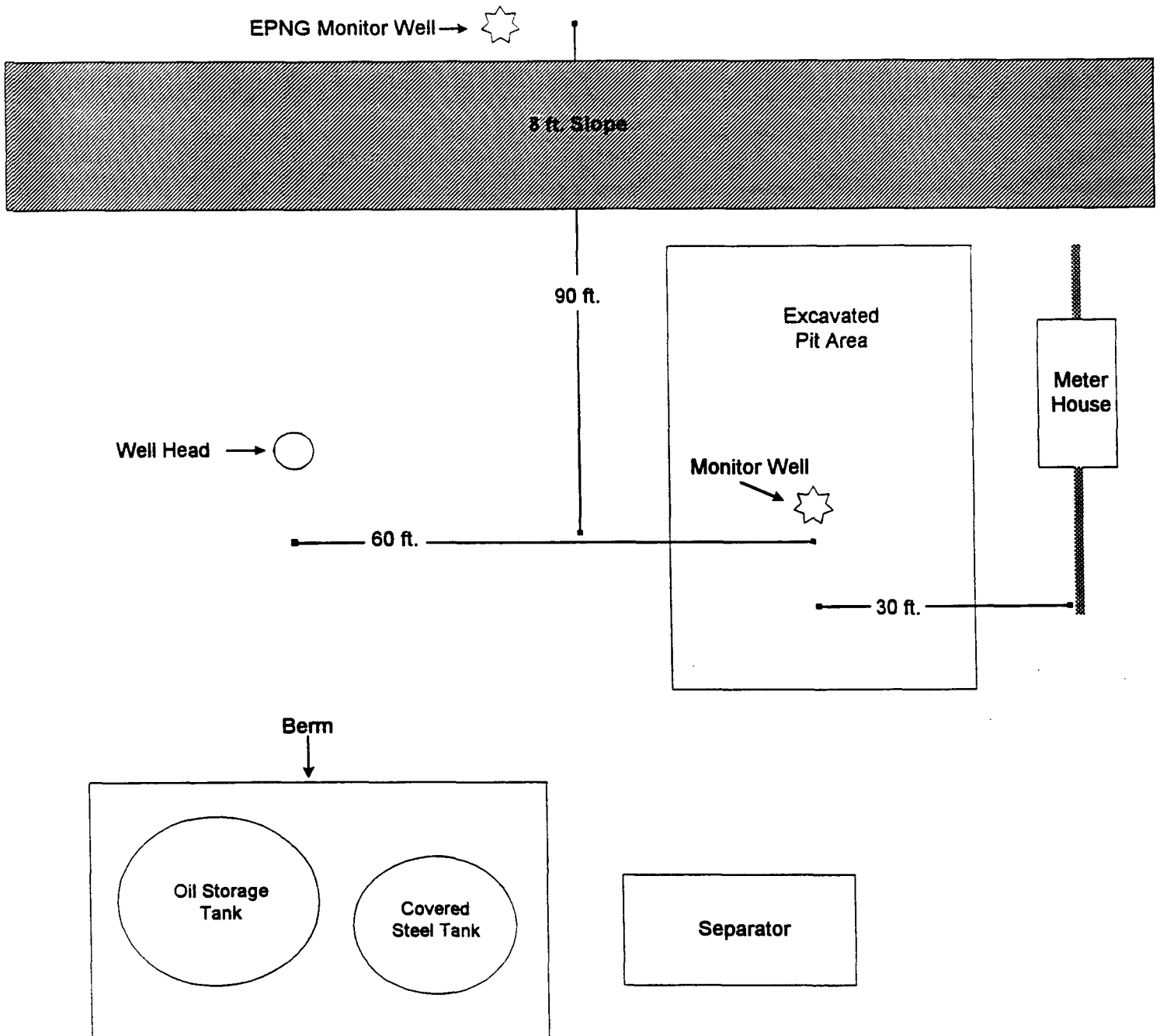
7285

ENVIROTECH INC.

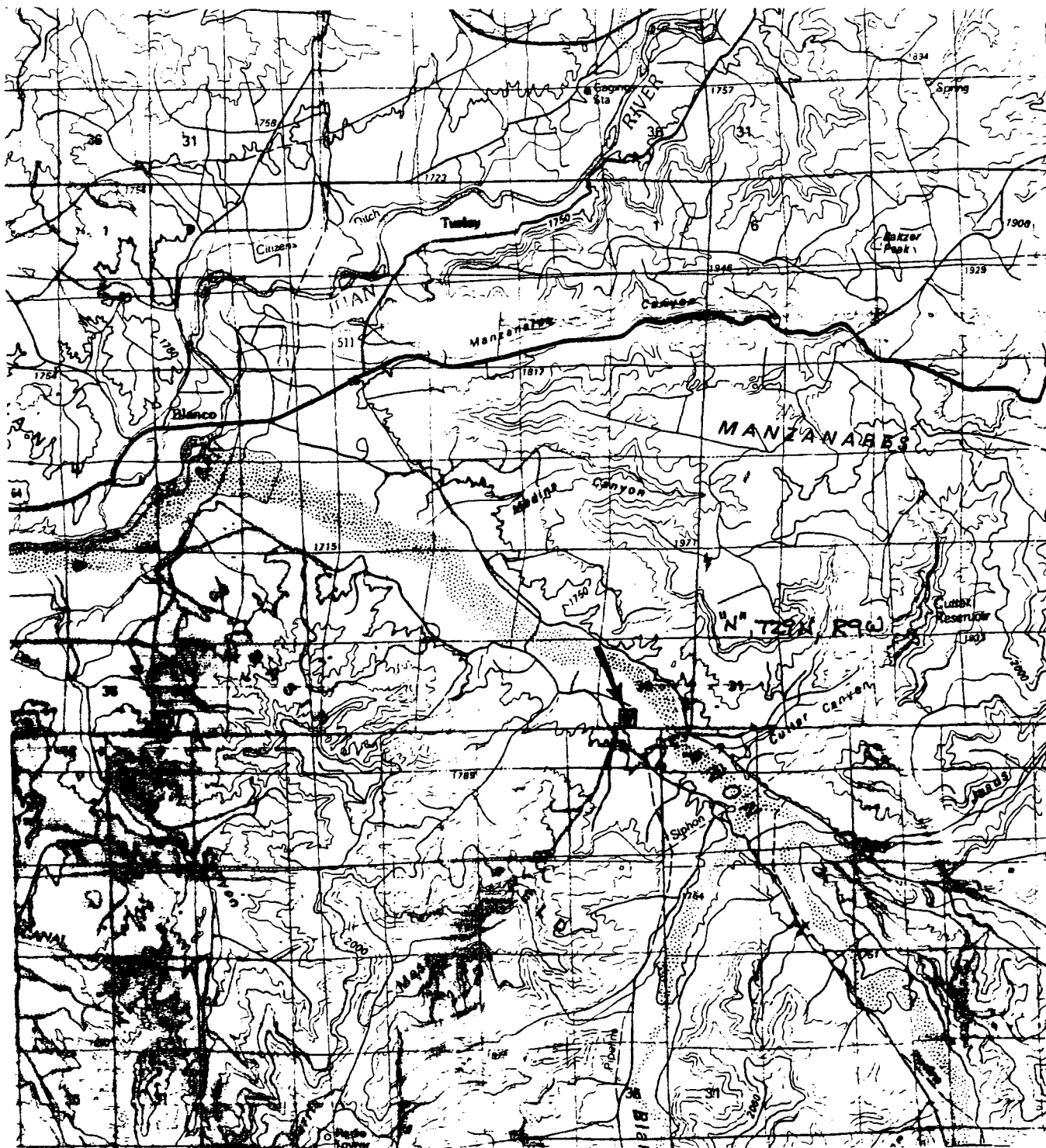
5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Location Diagram

BURLINGTON RESOURCES
STANDARD OIL COM No. 1
MONITOR WELL INSTALLATION



Not to scale - distances are approximate



All angles, directions, and distances determined
by sighting and pacing from existing site features.
Accuracy of measurements implied only to the
degree of accuracy of method.

Burlington Resources
Standard Oil Com #1
Monitor Well Installation
Largo Canyon
Blanco, New Mexico
San Juan County, NM
Project No.: 92197-01

Envirotech Inc.
Environmental Scientists & Engineers
5796 US Highway 64
Farmington, New Mexico

Vicinity Map

Figure 1	Date: 08/99
DRW: JAC	PRJ MGR: JAC