SPILL REPORT

ROGER ANDERSON

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
'94 MAR 27 AM 8 50

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Lennah Dawson
EOTT Energy Corp.
P.O. Box 2297
Midland, Texas 79702

Reference: Discharge of oily substance near Eott pipeline Sec 11-Ts 24S-R36E, 400 yards east of Kerns tank battery.

Dear Lennah,

Please find enclosed the analytical results taken from the soil where the discharge occurred near your pipeline listed above. Please note this material is non-hazardous per RCRA.

Per our previous discussions EOTT is hereby authorized to remediate the affected area. The NMOCD appreciates your cooperation and understands this is a voluntary effort on EOTT's behalf.

Please let us know by telephone when you anticipate to start the remediation and the method you plan on using. The NMOCD will then set a time frame to sample the soil some time in the future so we can ensure that the remediation is working. We will send you those results when completed.

Once again, thank you very much for your assistance in this matter.

Sincerely yours,

Wayne Price

Wayne Price

cc: Jerry Sexton-District I Supervisor
Attachments-1

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

P.O. MAILING ADDRESS — P.O. BOX 1000 — KILGORE, TEXAS 75663-9000
2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

05/11/94

Wayne Price
1000 W Broadsay
Oil Conserv. Div.
Hobbs, NM 88240-
Attention: Wayne Price

Sample Identification: Soil Sample
Collected By: Wayne Price
Date & Time Taken: 04/21/94 1020

Other Data:

TCLP without Herbicides and Pesticides

OCD Sample #94-04-21-1020
Project #NM-EOTT-1

Bottle Data:

1 - Unpreserved Plastic/Glass

Sample Matrix: Solid
Lab Sample Number: 267128 **Received:** 04/22/94 **Client:** PRI2

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Ignitibility (Reg. Limit 140.0)	>140	degrees F	1330 04/27/94		40 CFR 261.21	DS
Corrosivity (Reg. Limit 6.4)	Non Corrosive	mmpy	1345 04/25/94		SW-846 Ch. 7 7.2.2	DS
Reactivity with Water	Non Reactive		1445 04/25/94			DS
pH	7.8	SU	2230 04/22/94		EPA Method 9040	WK
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DL
Benzene	ND	ug/kg	1249 04/26/94	25	EPA Method 5030/8020	KL
Ethyl benzene	120	ug/kg	1249 04/26/94	25	EPA Method 5030/8020	KL
Toluene	130	ug/kg	1249 04/26/94	25	EPA Method 5030/8020	KL
Xylenes	1100	ug/kg	1249 04/26/94	25	EPA Method 5030/8020	KL
Reactivity Cyanide (RL 250)	ND	mg/kg	1345 04/26/94	10	EPA Method 7.3.3	WM
Reactivity Sulfide (RL 500)	ND	mg/kg	1400 04/26/94	100	EPA Method 9030	DS

Continued

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05/11/94 267128 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Reactivity	Non-reactive		1500 04/26/94		SW-846	NGT
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Hexachlorobenzene (.13)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Hexachlorobutadiene (.5)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Hexachlorethane (Limit 3)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Nitrobenzene (Limit 2)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Pentachlorophenol (100)	ND	mg/l	0202 05/06/94	0.5	EPA Method 8270-TCLP	DLS
TCLP Tetrachloroethylene (.7)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP Trichloroethylene (.5)	ND	mg/l	0547 04/28/94	0.05	EPA Method 8260-TCLP	PLM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Vinyl Chloride (.2)	ND	mg/l	0547 04/28/94	0.1	EPA Method 8260-TCLP	PLM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP Total Cresols (Reg Lim 200)	ND	mg/l	0202 05/06/94	0.1	EPA Method 8270-TCLP	DLS
TCLP MEK (Reg. Limit 200)	ND	mg/l	0547 04/28/94	1.0	EPA Method 8260-TCLP	PLM
Total Petroleum Hydrocarbon	13000	mg/kg	0920 04/26/94	250	EPA Method 418.1	WMB
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1532 04/28/94	.01	EPA Method 6010	GLW
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1532 04/28/94	.1	EPA Method 6010	GLW

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Barium (Reg. Limit 100.0)	ND	mg/l	1532 04/28/94	1	EPA Method 6010	GLW
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1532 04/28/94	.01	EPA Method 6010	GLW
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1532 04/28/94	.02	EPA Method 6010	GLW
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	2330 04/29/94	.001	EPA Method 7470	GLW
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1532 04/28/94	.1	EPA Method 6010	GLW
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	1532 04/28/94	.1	EPA Method 6010	GLW

Sample Preparation Steps for 267128

TCLP Extraction: Non-Volatile	Solid Ext. #1		1545 04/25/94	7	EPA Method 1311	JRM
TCLP Liquid-Liquid Extraction	100->1.00	ml->ml	1420 05/02/94		EPA Method 3510	LMB
Hydrocarbon Sonication Extract.	100/30	ml/g	2200 04/25/94		EPA Method 3550 *MOD	CRH
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1600 04/27/94		EPA Method 1311	SO
Reactivity Distillation	10	grams	1800 04/25/94		SW846 7.3.3	LFD
Metals Digestion TCLP 3010	50/50	A/B/S	1600 04/27/94		EPA Method 3010	KLG
Metals Digestion - TCLP 7470	50/50	A/S	1600 04/29/94		EPA Method 7470	KLG

Quality Assurance for the SET with Sample 267128

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
				Ignitibility (Reg. Limit 140.0)					
	Standard	85	Degrees F	81		105	1330	04/27/94	DSH
267128	Duplicate	>140	Degrees F	>140		100	1330	04/27/94	DSH
				Corrosivity (Reg. Limit 6.4)					
	Blank	Non Corr					1345	04/25/94	DSH
267128	Duplicate	Non Corr		Non Corr		100	1345	04/25/94	DSH
				Reactivity with Water					
267128	Duplicate	Non React		Non React		100	1445	04/25/94	DSH
				pH					
	Standard	CALIBRATED	SU	7.0			2230	04/22/94	
	Standard	CALIBRATED	SU	10.0			2230	04/22/94	
	Standard	5.9	SU	6.0		102	2230	04/22/94	WK(
	Standard	7.9	SU	8.0		101	2230	04/22/94	WK(
	Standard	8.9	SU	9.0		101	2230	04/22/94	WK(
	Standard	3.8	SU	4.0		105	2230	04/22/94	WK(
267127	Duplicate	4.6	SU	4.6		100	2230	04/22/94	WK(
267137	Duplicate	3.9	SU	3.9		100	2230	04/22/94	WK(
267147	Duplicate	5.0	SU	5.0		100	2230	04/22/94	WK(
267157	Duplicate	4.1	SU	4.1		100	2230	04/22/94	WK(
				Reactivity Cyanide (RL 250)					
	Standard	.052	mg/l	.050		104	1345	04/26/94	WM

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
265469	Duplicate	ND	mg/kg	ND		100	1345	04/26/94	WM
			Reactivity Sulfide (RL 500)						
	Blank	ND	MG/L				1400	04/26/94	DS
265469	Duplicate	ND	MG/L	ND		100	1400	04/26/94	DS
			Total Petroleum Hydrocarbon						
	Blank	ND	mg/l				0920	04/26/94	WM
	Blank	ND	mg/l				0920	04/26/94	WM
	Standard	152	mg/l	150		101	0920	04/26/94	WM
	Standard	154	mg/l	150		103	0920	04/26/94	WM
	Standard	150	mg/l	150		100	0920	04/26/94	WM
267130	Duplicate	39	mg/kg	48		121	0920	04/26/94	WM
267152	Duplicate	48	mg/kg	44		109	0920	04/26/94	WM
			TCLP Silver (Reg. Limit 5.0)						
	Blank	<.01	mg/l				1532	04/28/94	GL
	Standard	2.0	mg/l	2.0		100	1532	04/28/94	GL
	Standard	.97	mg/l	1.0		103	1532	04/28/94	GL
	Standard	1.9	mg/l	2.0		105	1532	04/28/94	GL
	Standard	.20	mg/l	.20		100	1532	04/28/94	GL
	Standard	1.1	mg/l	1.0		110	1532	04/28/94	GL
	Standard	2.0	mg/l	2.0		100	1532	04/28/94	GL
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GL
267020	Spike		mg/l		1.0	90	1532	04/28/94	GL
266870	Spike		mg/l		1.0	93	1532	04/28/94	GL
266929	Spike		mg/l		1.0	117	1532	04/28/94	GL
266930	Spike		mg/l		1.0	100	1532	04/28/94	GL
267072	Spike		mg/l		1.0	91	1532	04/28/94	GL
267073	Spike		mg/l		1.0	81	1532	04/28/94	GL
267128	Spike		mg/l		1.0	102	1532	04/28/94	GL
			TCLP Arsenic (Reg. Limit 5.0)						
	Blank	<.1	mg/l				1532	04/28/94	GL
	Standard	9.8	mg/l	10		102	1532	04/28/94	GL
	Standard	4.6	mg/l	5.0		108	1532	04/28/94	GL
	Standard	9.5	mg/l	10		105	1532	04/28/94	GL
	Standard	.96	mg/l	1.0		104	1532	04/28/94	GL
	Standard	4.7	mg/l	5.0		106	1532	04/28/94	GL
	Standard	9.6	mg/l	10		104	1532	04/28/94	GL
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GL
267020	Spike		mg/l		5.0	90	1532	04/28/94	GL
266870	Spike		mg/l		5.0	92	1532	04/28/94	GL
266929	Spike		mg/l		5.0	94	1532	04/28/94	GL
266930	Spike		mg/l		5.0	102	1532	04/28/94	GL
267072	Spike		mg/l		5.0	93	1532	04/28/94	GL
267073	Spike		mg/l		5.0	95	1532	04/28/94	GL
267128	Spike		mg/l		5.0	96	1532	04/28/94	GL

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
			TCLP Barium (Reg. Limit 100.0)						
	Blank	<1	mg/l				1532	04/28/94	GLW
	Standard	9.5	mg/l	10		105	1532	04/28/94	GLW
	Standard	4.6	mg/l	5.0		108	1532	04/28/94	GLW
	Standard	9.3	mg/l	10		107	1532	04/28/94	GLW
	Standard	1.0	mg/l	1.0		100	1532	04/28/94	GLW
	Standard	5.0	mg/l	5.0		100	1532	04/28/94	GLW
	Standard	9.8	mg/l	10		102	1532	04/28/94	GLW
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GLW
267020	Spike		mg/l		5.0	90	1532	04/28/94	GLW
266870	Spike		mg/l		5.0	94	1532	04/28/94	GLW
266929	Spike		mg/l		5.0	93	1532	04/28/94	GLW
266930	Spike		mg/l		5.0	104	1532	04/28/94	GLW
267072	Spike		mg/l		5.0	93	1532	04/28/94	GLW
267073	Spike		mg/l		5.0	93	1532	04/28/94	GLW
267128	Spike		mg/l		5.0	95	1532	04/28/94	GLW
			TCLP Cadmium (Reg. Limit 1.0)						
	Blank	<.01	mg/l				1532	04/28/94	GLW
	Standard	2.6	mg/l	2.5		104	1532	04/28/94	GLW
	Standard	2.4	mg/l	2.5		104	1532	04/28/94	GLW
	Standard	.48	mg/l	.50		104	1532	04/28/94	GLW
	Standard	4.5	mg/l	5.0		111	1532	04/28/94	GLW
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GLW
267020	Spike		mg/l		1.0	98	1532	04/28/94	GLW
266870	Spike		mg/l		1.0	100	1532	04/28/94	GLW
266929	Spike		mg/l		1.0	102	1532	04/28/94	GLW
266930	Spike		mg/l		1.0	91	1532	04/28/94	GLW
267072	Spike		mg/l		1.0	87	1532	04/28/94	GLW
267073	Spike		mg/l		1.0	93	1532	04/28/94	GLW
267128	Spike		mg/l		1.0	97	1532	04/28/94	GLW
			TCLP Chromium (Reg. Limit 5.0)						
	Blank	<.02	mg/l				1532	04/28/94	GLW
	Standard	9.6	mg/l	10		104	1532	04/28/94	GLW
	Standard	9.0	mg/l	10		111	1532	04/28/94	GLW
	Standard	1.0	mg/l	1.0		100	1532	04/28/94	GLW
	Standard	4.7	mg/l	5.0		106	1532	04/28/94	GLW
	Standard	9.3	mg/l	10		107	1532	04/28/94	GLW
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GLW
267020	Spike		mg/l		5.0	86	1532	04/28/94	GLW
266870	Spike		mg/l		5.0	92	1532	04/28/94	GLW
266929	Spike		mg/l		5.0	95	1532	04/28/94	GLW
266930	Spike		mg/l		5.0	96	1532	04/28/94	GLW
267072	Spike		mg/l		5.0	91	1532	04/28/94	GLW
267073	Spike		mg/l		5.0	91	1532	04/28/94	GLW

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ample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
67128	Spike		mg/l		5.0	95	1532	04/28/94	GLW
				TCLP Mercury (Reg. Limit 0.2)					
	Blank	.003	mg/l				2330	04/29/94	GLW
	Blank	.002	mg/l				2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.011	mg/l	.010		110	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.010	mg/l	.010		100	2330	04/29/94	GLW
	Standard	.009	mg/l	.010		111	2330	04/29/94	GLW
67526	Duplicate	ND	mg/l	ND		100	2330	04/29/94	GLW
67215	Duplicate	ND	mg/l	ND		100	2330	04/29/94	GLW
67625	Spike		mg/l		.010	101	2330	04/29/94	GLW
67626	Spike		mg/l		.010	97	2330	04/29/94	GLW
67627	Spike		mg/l		.010	107	2330	04/29/94	GLW
67628	Spike		mg/l		.010	104	2330	04/29/94	GLW
67629	Spike		mg/l		.010	109	2330	04/29/94	GLW
67630	Spike		mg/l		.010	80	2330	04/29/94	GLW
67072	Spike		mg/l		.010	93	2330	04/29/94	GLW
67073	Spike		mg/l		.010	100	2330	04/29/94	GLW
67128	Spike		mg/l		.010	127	2330	04/29/94	GLW
67215	Spike		mg/l		.010	93	2330	04/29/94	GLW
67617	Spike		mg/l		.010	112	2330	04/29/94	GLW
67622	Spike		mg/l		.010	102	2330	04/29/94	GLW
67623	Spike		mg/l		.010	101	2330	04/29/94	GLW
67624	Spike		mg/l		.010	96	2330	04/29/94	GLW
67631	Spike		mg/l		.010	97	2330	04/29/94	GLW
				TCLP Lead (Reg. Limit 5.0)					
	Blank	<.1	mg/l				1532	04/28/94	GLW
	Standard	9.5	mg/l	10		105	1532	04/28/94	GLW
	Standard	4.5	mg/l	5.0		111	1532	04/28/94	GLW
	Standard	9.1	mg/l	10		109	1532	04/28/94	GLW
	Standard	1.0	mg/l	1.0		100	1532	04/28/94	GLW
	Standard	4.8	mg/l	5.0		104	1532	04/28/94	GLW
	Standard	9.3	mg/l	10		107	1532	04/28/94	GLW
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GLW
267020	Spike		mg/l		5.0	88	1532	04/28/94	GLW
266870	Spike		mg/l		5.0	93	1532	04/28/94	GLW
266929	Spike		mg/l		5.0	92	1532	04/28/94	GLW
266930	Spike		mg/l		5.0	95	1532	04/28/94	GLW

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Analytical Chemistry • *Utility Operations*

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
267072	Spike		mg/l		5.0	91	1532	04/28/94	GLW
267073	Spike		mg/l		5.0	91	1532	04/28/94	GLW
267128	Spike		mg/l		5.0	92	1532	04/28/94	GLW

TCLP Selenium (Reg. Limit 1.0)

	Blank	<.1	mg/l				1532	04/28/94	GLW
	Standard	9.7	mg/l	10		103	1532	04/28/94	GLW
	Standard	9.1	mg/l	10		109	1532	04/28/94	GLW
	Standard	1.0	mg/l	1.0		100	1532	04/28/94	GLW
	Standard	4.7	mg/l	5.0		106	1532	04/28/94	GLW
	Standard	9.8	mg/l	10		102	1532	04/28/94	GLW
267128	Duplicate	ND	mg/l	ND		100	1532	04/28/94	GLW
267020	Spike		mg/l		1.0	93	1532	04/28/94	GLW
266870	Spike		mg/l		1.0	94	1532	04/28/94	GLW
266929	Spike		mg/l		1.0	96	1532	04/28/94	GLW
266930	Spike		mg/l		1.0	105	1532	04/28/94	GLW
267072	Spike		mg/l		1.0	97	1532	04/28/94	GLW
267073	Spike		mg/l		1.0	98	1532	04/28/94	GLW
267128	Spike		mg/l		1.0	102	1532	04/28/94	GLW

Blank

Compound	Result
Benzene	ND
Chlorobenzene	ND
1,1-Dichloroethene	ND
Toluene	ND
Trichloroethene	ND

Instrument Tune

Mass	Reference Mass	Min Abundance	Max Abundance	Result	Status
BFB Mass 50	95	15.0	40.0	27.6	PASS
BFB Mass 75	95	30.0	60.0	49.7	PASS
BFB Mass 95	95	100	100	100.0	PASS
BFB Mass 96	95	5.00	9.00	7.1	PASS
BFB Mass 173	174	0	2.00	0.0	PASS
BFB Mass 174	95	50.0	100	55.9	PASS
BFB Mass 175	174	5.00	9.00	7.0	PASS
BFB Mass 176	174	95.0	101	97.0	PASS
BFB Mass 177	176	5.00	9.00	6.6	PASS

Instrument Calibration Check

Compound	Max %Rel. Std.	%Deviation	Status

Continued

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914
Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chloroform	25.0	-4.5	PASS			
1,1-Dichloroethene	25.0	0.4	PASS			
1,2-Dichloropropane	25.0	-8.9	PASS			
Ethyl benzene	25.0	-0.3	PASS			
Toluene	25.0	-3.6	PASS			
Vinyl Chloride	25.0	3.9	PASS			

Instrument System Performance Check

Compound	Min Response Factor	Response Factor	Status
Bromoform	.2500	0.401	PASS
Chlorobenzene	.3000	1.130	PASS
Chloromethane	.3000	0.509	PASS
1,1-Dichloroethane	.3000	1.529	PASS
1,1,2,2-Tetrachloroethane	.3000	1.701	PASS

Surrogate/Spike on Sample 267128

Compound	Result	Concentration	%Recovery
Dibromofluoromethane	56	50	110
Toluene-d8	55	50	110
Bromofluorobenzene-SURR	46	50	92

Matrix Spike on Sample 267128

Compound	Recovery (%)	Concentration
TCLP Benzene (Reg. Limit 0.5)	110	100
TCLP Carbon Tetrachloride (.5)	110	100
TCLP Chlorobenzene (Limit 100)	110	100
TCLP Chloroform (Reg. Limit 6.0)	100	100
TCLP 1,2-Dichloroethane (RL .5)	120	100
TCLP 1,1-Dichloroethene (.7)	95	100
TCLP Tetrachloroethylene (.7)	100	100
TCLP Trichloroethylene (.5)	110	100
TCLP Vinyl Chloride (.2)	63	100
TCLP MEK (Reg. Limit 200)	110	200

Internal Standard Areas on Sample 267128

Compound	ISM Area	CCC ISM Area	Status
Pentafluorobenzene-ISTD	377600	406500	PASS
1,4-Difluorobenzene-ISTD	426500	473600	PASS
Clorobenzene-d5-ISTD	321600	333600	PASS
1,4-Dichlorobenzene-d4-ISTD	148400	129700	PASS

Instrument Tune

Mass	Reference Mass	Min Abundance	Max Abundance	Result	Status

Continued

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Analytical Chemistry • *Utility Operations*

PARAMETER		RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
DFTPP Mass 51	198	30.0	60.0	56.1	PASS		
DFTPP Mass 68	69	0	2.00	0.0	PASS		
DFTPP Mass 69	198	0	100	45.9	PASS		
DFTPP Mass 70	69	0	2.00	0.7	PASS		
DFTPP Mass 127	198	40.0	60.0	42.4	PASS		
DFTPP Mass 197	198	0	1.00	0.0	PASS		
DFTPP Mass 198	198	100	100	100.0	PASS		
DFTPP Mass 199	198	5.00	9.00	7.2	PASS		
DFTPP Mass 275	198	10.0	30.0	24.7	PASS		
DFTPP Mass 365	198	1.00	100	4.3	PASS		
DFTPP Mass 441	443	0	100	77.9	PASS		
DFTPP Mass 442	198	40.0	100	57.4	PASS		
DFTPP Mass 443	442	17.0	23.0	19.4	PASS		

Instrument Calibration Check

Compound	Max %Rel. Std.	%Deviation	Status
Acenaphthene	30.0	7.1	PASS
Benzo(a)pyrene	30.0	7.4	PASS
4-Chloro-3-methylphenol	30.0	-3.1	PASS
1,4-Dichlorobenzene	30.0	8.9	PASS
2,4-Dichlorophenol	30.0	4.8	PASS
Di-n-octylphthalate	30.0	-2.1	PASS
Fluoranthene	30.0	11.8	PASS
Hexachlorobutadiene	30.0	6.9	PASS
2-Nitrophenol	30.0	-2.4	PASS
N-nitrosodiphenylamine	30.0	6.5	PASS
Pentachlorophenol	30.0	20.5	PASS
Phenol	30.0	19.0	PASS
2,4,6-Trichlorophenol	30.0	2.1	PASS

Instrument System Performance Check

Compound	Min Response Factor	Response Factor	Status
2,4-Dinitrophenol	.0500	0.110	PASS
Hexachlorocyclopentadiene	.0500	0.437	PASS
4-Nitrophenol	.0500	0.141	PASS
N-Nitrosodi-n-propylamine	.0500	0.637	PASS

Surrogate/Spike on Sample 267128

Compound	Result	Concentration	%Recovery
2,4,6-Tribromophenol	92	100	92
2-Fluorophenol-SURR	36	100	36
Phenol-d6-SURR	16	100	16
Nitrobenzene-d5-SURR	38	50	76

Continued

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS		UNITS	ANALYZED	EQL	METHOD	BY
2-Fluorobiphenyl-SURR	35	50	70				
4-Terphenyl-d14-SURR	44	50	88				

Matrix Spike on Sample 267128

Compound	Recovery (%)	Concentration
TCLP 1,4 Dichlorobenzene: RL 7.5	87	100
TCLP 2,4-Dinitrotoluene (.13)	87	100
TCLP Hexachlorobutadiene (.5)	82	100
TCLP Hexachlorethane (Limit 3)	93	100
TCLP Nitrobenzene (Limit 2)	87	100
TCLP Pentachlorophenol (100)	61	100
TCLP 2,4,6-Trichlorophenol (2)	94	100
TCLP 2,4,5-Trichlorophenol (400)	82	100
TCLP Total Cresols (Reg Lim 200)	100	200
TCLP Pyridine (Reg. Limit 5)	22	100

Internal Standard Areas on Sample 267128

Compound	ISM Area	CCC ISM Area	Status
1,4-Dichlorobenzene-d4-ISTD	47750	58070	PASS
Naphthalene-d8-ISTD	177400	217000	PASS
Acenaphthene-d10-ISTD	118700	145400	PASS
Phenanthrene-d10-ISTD	186700	209400	PASS

Blank

Compound	Result
Benzene	ND
Ethyl benzene	ND
Toluene	ND
Xylenes	ND

Standard

Compound	Concentration	Result	%Difference
Benzene	100	85	-15
Ethyl benzene	100	85	-15
Toluene	100	90	-10
Xylenes	100	90	-10

EQL is Estimated Quantitation Limit. The EQL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL). Our analytical result must be above our EQL before we report a value for any parameter. Otherwise, we report ND (Not Detected above EQL).

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

Ana-Lab Corp. Laboratory Chain of Custody
Printed 04/20/94

Relinquished by: ____________________
Name Date Time

Relinquished by: ____________________
Name Date Time

Received in Lab: [signature] 4 22 94 1115
Name Date Time

Cooler Temperature on Arrival: On ice
Other Remarks: #42

PRI2 Soil Sample OCD SAMPLE # 94-04-21-1020
Other Sample Data: PROJECT # NM/EOTT-1

NOTE: MIX SAMPLE BEFORE TESTING

TCLP without Herbicides and Pesticides

001 Wayne Price
1000 W Broadsay
Hobbs, NM 88240-

Lab Number: 767128
505/393-6161
Atten: Wayne Price

Required Lab Tests:

TCLP Extraction: Non-Volatile		*TCL
Corrosivity (Reg. Limit 6.4)	mmpy	Corr
MS TCLP Volatile Analysis		TVOA
Benzene,Toluene,EthylBenz,Xylene	ug/kg	BTEX
Reactivity		Reac
Total Petroleum Hydrocarbon	mg/kg	TPH
TCLP Silver (Reg. Limit 5.0)	mg/l	*Ag*
TCLP Arsenic (Reg. Limit 5.0)	mg/l	*As*
TCLP Barium (Reg. Limit 100.0)	mg/l	*Ba*
TCLP Cadmium (Reg. Limit 1.0)	mg/l	*Cd*
TCLP Chromium (Reg. Limit 5.0)	mg/l	*Cr*
TCLP Mercury (Reg. Limit 0.2)	mg/l	*Hg*
TCLP Lead (Reg. Limit 5.0)	mg/l	*Pb*
TCLP Selenium (Reg. Limit 1.0)	mg/l	*Se*
MS TCLP Semi-Volatile Analysis		TABN

#16N
Wit: [illegible] - EOTT

Sample Collector: * [signature] WAYNE PRICE 4/21/94 10:20AM
Signature Date Taken Time T

Received by: ____________________
Signature Date Taken Time T
Cooler ID: __________ Security Seal Intact? __Yes ✓No

Bottle Information:
__1__ Unpreserved Plastic/Glass USED ICE!
_____ Hexane Rinsed Glass Liter with a Teflon Lined Lid
_____ 40 ml glass Vial (Zero Headspace) with a Teflon Lined Lid
_____ Plastic or Glass Liter Preserved with NaOH
_____ Freon Rinsed Glass Liter with a Teflon Lid Preserved with H2SO4
_____ Unpreserved Sample for TCLP Extract
_____ 5 - Hexane Rinsed Glass Liters with Teflon lined lids !!

SOIL - 1 Qt MIX SAMPLE BEFORE TESTING!

PAGE 1 of 3

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ANALYSIS REQUEST FORM

Contract Lab ANA · LAB Contract No. 94-521.07-005A

OCD Sample No. 94-04-21-1020

Collection Date	Collection Time	Collected by —Person/Agency
4/21/94	10:30 AM	WAYNE PRICE /OCD

SITE INFORMATION DISCHARGE of OILY SUBSTANCE NEAR EOTT PIPELINE PROJECT # NM/EOTT

Sample location ≈ 400 YARDS E of KERN'S TANK BATTERY - JAL-COOPER AREA . NM.

Collection Site Description SANDY SOIL - SEE ATTACHED SKETCH # NM/EOTT-1

Township, Range, Section, Tract: SEC 11 - T24S - R36E

SEND FINAL REPORT TO ▸
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☐ Dipped ☐ Tap COMPOSITE ☑

Water level	NA
Discharge	NA
Sample type	SOIL
pH(00400)	NA
Conductivity (Uncorrected)	NA µmho
Water Temp. (00010)	NA
Conductivity at 25° C	NA µmho

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☐ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 µ membrane filter
☐ PF: Pre-filtered w/45 µ membrane filter
NA

☐ NA: No acid added
☐ A: HCL
☐ A: $2ml\ H_2SO_4/L$ added
☐ A: 5ml conc. HNO_3 added
☐ A: 4ml fuming HNO_3 added
ICE

FIELD COMMENTS: SINGLE RANDOM SAMPLE 8 PT - 7/9 - COMPOSITE -SEE SKETCH-

LAB ANALYSIS REQUESTED:

ITEM	DESC	METHOD	ITEM	DESC	METHOD	ITEM	DESC	METHOD
☐ 001	VOA	8020	☐ 013	PHENOL	604	☐ 026	Cd	
☐ 002	VOA	602	☐ 014	VOC	8240	☐ 027	Pb	
☐ 003	VOH	8010	☐ 015	VOC	624	☐ 028	Hg(L)	
☐ 004	VOH	601	☐ 016	SVOC	8250	☐ 031	Se	
☐ 005	SUITE	8010-8020	☐ 017	SVOC	625	☐ 032	ICAP	
☐ 006	SUITE	601-602	☐ 018	VOC	8260	☐ 033	CATIONS/ANIONS	
☐ 007	HEADSPACE		☐ 019	SVOC	8270	☐ 034	N SUITE	
☐ 008	PAH	8100	☐ 020	O&G	9070	☐ 035	NITRATE	
☐ 009	PAH	610	☐ 022	AS	7060	☐ 036	NITRITE	
☐ 010	PCB	8080	☐ 023	Ba	7080	☐ 037	AMMONIA	
☐ 011	PCB	608	☐ 024	Cr	7190	☐ 038	TKN	
☐ 012	PHENOL	8040	☐ 025	Cr6	7198	☑ 042	OTHER SEE ATTACH	

ADD TPH-418.1 ☑
BETX- 8010-8020 ☑

042 ☑ METHOD 1311 TCLP EXTRACT

WITH RCI + EP TOX

AMMEND TO READ LESS EP TOX -

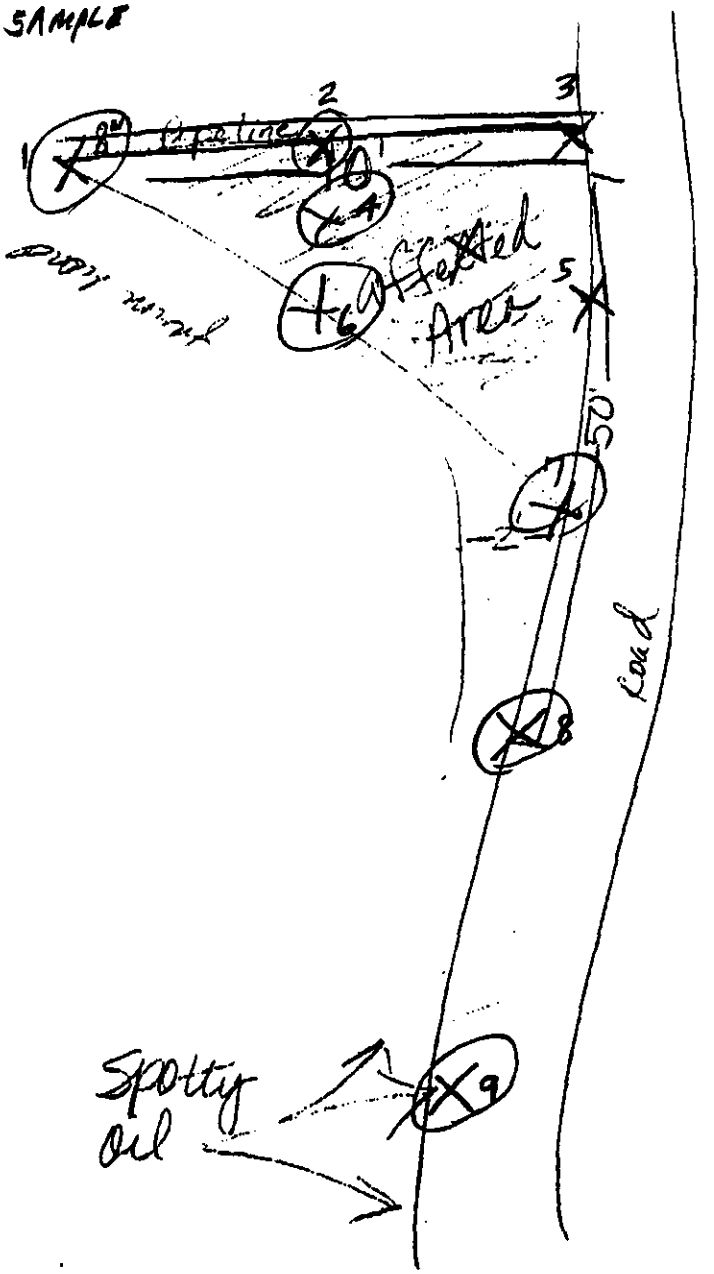
ADD FULL TCLP CONSTITUENTS LESS

PESTICIDES + HERBICIDE

Project # MM/Eott-1

SKETCH # NM/E

SIMPLE RANDOM SAMPLING
80% CI
DREW 7 OUT OF 9
COMPOSITE FOR ONE SAMPLE



4/21/94