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CLOSURE REPORT

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TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-10 LEA COUNTY, NEW MEXICO



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CLOSURE REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-10 LEA COUNTY, NEW MEXICO

PREPARED FOR:

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KEI Job No. 710026

February 24, 1998

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EXECUTIVE SUMMARY	1
PURPOSE AND SCOPE	2
BACKGROUND INFORMATION	2
CLOSURE ACTIVITIES CLOSURE STANDARDS SOIL REMOVAL SOIL CHARACTERIZATION CONFIRMATION SAMPLING SOIL DISPOSAL BACKFILL AND RESTORATION	2
QA/QC PROCEDURES	3

FIGURES

FIG. 1 - SITE LOCATION MAP FIG. 2 - SITE DETAILS FIG. 3 - SAMPLING POINT LOCATIONS AND CONCENTRATIONS

TABLES

GENERAL NOTES TABLE I - SUMMARY OF LABORATORY RESULTS - SOIL

APPENDICES

APPENDIX A - LABORATORY REPORTS CHAIN-OF-CUSTODY DOCUMENTATION APPENDIX B - DISPOSAL DOCUMENTATION

EXECUTIVE SUMMARY

The Texas - New Mexico Pipe Line Company (TNMPL) release site TNM-97-10 is located approximately 1.5 miles south of Monument in Lea County, New Mexico. The site is specifically located in Section 5, Township 20 South, Range 37 East. A site location map is presented as FIG. 1. The site is owned by Mr. Jimmy Cooper. Specific site details are presented on FIG. 2. This report summarizes closure activities performed at the project site during July of 1997.

Closure activities performed included the following:

- collection of soil samples from the initial excavation to determine hydrocarbon concentration levels;
- excavation and stockpiling of additional soils which exceeded closure levels;
- collection of confirmation samples in the excavated area;
- characterization of stockpiled soils;
- transportation and off-site landfarming of stockpiled soils;
- backfilling the excavation with clean soils; and
- grading and seeding of disturbed areas.

The following conclusions are based on field and laboratory data:

• The closure standards at the site were determined to be as follows:

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	100 + Background Concentration
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- Approximately 5,572 cubic yards of impacted soil was excavated, stockpiled, and landfarmed off-site.
- Confirmation soil samples at the site indicated TPH, benzene, and BTEX concentrations below closure standards.

Based on the attainment of closure levels, we recommend the site be closed under New Mexico Oil Conservation Division (OCD) regulations.

PURPOSE AND SCOPE

The objective of the site closure activities was to obtain closure for the site based on OCD regulations. The following activities were performed to achieve this objective:

- determination of closure standards;
- removal of impacted soil;
- characterization of removed impacted soil;
- confirmation sampling in the excavated area;
- transportation and off-site landfarming of impacted soil; and
- backfill clean soil in the excavated area.

BACKGROUND INFORMATION



A hydrocarbon release was identified at the subject site on June 16, 1997. The following activities were performed as part of the current release response activities:

- Clean overburden soils including topsoil were removed and stockpiled on-site.
- Soils were excavated, stockpiled, and some soils were landfarmed off-site.

CLOSURE ACTIVITIES

CLOSURE STANDARDS

The New Mexico OCD Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

CRITERIA	APPLICABLE STANDARD	POINTS
Depth to Ground Water	Less Than 50 Feet	20 Points
Well Head Protection	Greater Than 1000 Feet to Water Source Greater Than 200 Feet to Private Water Source	0 Points
Surface Water Body	Greater Than 1000 Feet	0 Points
	Total Ranking Score	20 Points

Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
ТРН	100 + Background Concentration

SOIL REMOVAL

Soils were removed from the bottom and sidewalls of the excavation during July of 1997. An estimated 5,572 cubic yards were removed from the existing excavation and stockpiled on-site for characterization prior to off-site landfarming.

SOIL CHARACTERIZATION

The soil stockpiles were characterized by collecting four composite soil samples for determination of TPH. Laboratory results indicated TPH concentrations of ND, 1,233 mg/kg, 2,092 mg/kg, and 2,976 mg/kg. Laboratory results are presented in APPENDIX A.

CONFIRMATION SAMPLING

Composite soil samples were collected from the excavation bottom and excavation sidewalls in Sections A through E and submitted for determination of TPH and BTEX concentrations using EPA Method SW846-8015M - Diesel Range Organics and SW846-8020, respectively. Based on the laboratory results of the sidewall and excavation bottom soil samples, additional soils were excavated and the sidewall and excavation bottom resampled. The sample locations are presented on FIG. 3.

Laboratory results of the final composite soil samples indicated the following:

SAMPLE LOCATION	МАХ. ТРН	MAX. BTEX	MAX. BENZENE
Final Soil Sidewall (mg/kg)	67	12.429	1.189
Soil Bottom (mg/kg)	31	0.648	ND

Soil laboratory results are summarized in TABLE I and graphically presented on FIG. 3.

SOIL DISPOSAL

Authorization to transport and landfarm the impacted soils off-site was obtained from OCD. The impacted soils were transported to C&C Landfarm Incorporated located approximately two miles south of Monument, New Mexico. Disposal documentation is presented in APPENDIX B.

BACKFILL AND RESTORATION

Approximately 5,614 cubic yards of clean fill material was purchased from Mr. Cooper and placed in the excavation. The remaining non-impacted stockpiled soils from the initial release excavation activities were used to complete the backfilling operations. The area was graded and reseeded following backfilling.

QA/QC PROCEDURES

The soil samples collected were placed in a sterile glass container equipped with a Teflonlined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to Environmental Lab of Texas, Inc. in Odessa, Texas for determination of BTEX and TPH concentrations using EPA Method SW846-8020, 5030 and SW846-8015M Diesel Range Organics, respectively. Proper chain-of-custody documentation was maintained throughout the sampling process.

MONUMENT NORTH QUADRANGLE NEW MEXICO - LEA COUNTY PRINTED 1985

1006751

MONUMENT SOUTH QUADRANGLE NEW MEXICO - LEA COUNTY PRINTED 1985





SITE LOCATION MAP	710026







GENERAL NOTES

ND -Indicates constituent was not detected above the method detection limit.

Indicates sample was not submitted for determination of specified constituent. ----

Method detection limits:

Soil:	TPH -	•	10 mg/kg
	BTEX -	-	0.100 mg/kg

Laboratory test methods: BTEX - EPA Method SW846-8020, 8030 TPH - SW846-8015M Diesel Range Organics

TABLE I

SUMMARY OF LABORATORY RESULTS - SOIL EXCAVATION ACTIVITIES TNM-97-10 LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	XYLENES (mg/kg)	BTEX (mg/kg)	TPH (mg/kg
Excavation Sampling							
Section A North Sidewall	07/08/97						28
Section A South Sidewall	07/08/97						28
Section A Excavation Bottom	07/08/97						27
Section B North Sidewall	07/08/97						27
Section B South Sidewall	07/08/97						26
Section B Excavation Bottom	07/08/97						26
Section C North Sidewall	07/08/97						25
Section C South Sidewall	07/08/97						ND
Section C Excavation Bottom	07/08/97						ND
Bellhole Sidewall	07/08/97						223
Bellhole Bottom	07/08/97						28
Section A Excavation Bottom	07/14/97	ND	0.120	ND	0.192	0.312	163
Section B Excavation Bottom	07/14/97	ND	ND	0.117	ND	0.117	290
Section C Excavation Bottom	07/14/97	ND	ND	ND	ND	ND	17
Section D Excavation Bottom	07/14/97	ND	ND	ND	ND	ND	31
Section D West Sidewall	07/14/97	ND	ND	ND	ND	ND	216
Section D South Sidewall	07/14/97	1.189	2.425	1.368	7.447	12.429	11
Section D North Sidewall	07/14/97	0.143	0.155	0.138	0.654	1.090	20
Section E North Sidewall	07/14/97	ND	0.149	0.122	0.594	0.865	146
Section E East Sidewall	07/14/97	ND	ND	ND	0.118	0.118	309
Section E Excavation Bottom	07/14/97	ND	0.225	0.157	1.038	1.420	469
Bell Hole Area South Sidewall	07/14/97	ND	0.129	ND	0.197	0.326	67
Bell Hole Area West Sidewall	07/14/97	ND	ND	ND	ND	ND	720
Bell Hole Area East Sidewall	07/14/97	ND	ND	ND	0.111	0.111	650
Soil Characterization Sampling		•••••••••••					• • • • • • • • • • • • • • • • • • • •
Stockpile R-1	07/08/97						ND
Stockpile E-1	07/14/97						2,092
Stockpile D-1	07/14/97						2,976
Stockpile R-1A	07/14/97						1,233
Confirmation Sampling	<u> </u>				•	.	f
Bell Hole Area West Sidewall	07/22/97	0.395	0.100	ND	0.224	0.719	ND ⁽¹⁾
Bell Hole Area East Sidewall	07/22/97	ND	ND	ND	ND	ND	ND ⁽¹⁾
Section E Excavation Bottom	07/22/97	ND	ND	ND	0.428	0.428	ND ⁽¹⁾
Section E East Sidewall	07/22/97	ND	ND	ND	ND	ND	ND ⁽¹⁾
Section E North Sidewall	07/22/97	0.153	0.168	0.224	ND	0.545	19 ⁽¹⁾
Section E West Sidewall	07/22/97	ND	ND	ND	ND	ND	ND ⁽¹⁾
Section D West Sidewall	07/22/97	0.291	0.143	ND	0.271	0.705	ND ⁽¹⁾
Section A Excavation Bottom	07/22/97	0.250	0.109	ND	0.289	0.648	ND ⁽¹⁾
Section B Excavation Bottom	07/22/97	0.178	ND	ND	ND	0.178	19 ⁽¹⁾

1. Indicates the retest of excavation sidewall samples collected July 14, 1997, following overexcavation of additional soils.



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ATTN: THERESA NIX 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238 FAX: 210-680-3763

Receiving Date: 07/16/97 Sample Type: SOIL Project #: 710026 Project Location: TNM 97-10

Analysis Date: 07/16/97 Sampling Date: 07/14/97 Sample Condition: Intact/Iced

11754Section A: Bott11755Section B; Bott11756Section C; Bott11757Section D; Bott11758Section D; We11759Section D; Sou11760Section D; Not11761Section E; Not11762Section E; Ea11763Section E; We11764Section E; Bott	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	C10-C28
11754	Section A: Bottom Hole	<0.100	0.120	<0.100	0.192	mg/kg mg/kg <0.100	
	Section B; Bottom Hole	<0.100	<0.100	0.117	<0.100	E o-XYLENE C10-C28 mg/kg g/kg mg/kg <0.100	
11756	Section C; Bottom Hole	<0.100	<0.100	<0.100	<0.100		17
11757	Section D; Bottom Hole	<0.100	<0.100	<0.100	<0.100	<0.100	o-XYLENE C10-C28 mg/kg mg/kg mg/kg <0.100
11758	Section D; West Wall	<0.100	<0.100	<0.100	<0.100	<0.100	ENE C10-C28 kg mg/kg 00 163 00 290 00 17 00 31 00 216 70 11 90 20 34 146 00 309 28 241 58 469 00 67 00 650 2,092
11759	Section D; South Wall	1.189	2.425	1.368	5.077	2.370	KLENE C10-C28 g/kg mg/kg .100 163 .100 290 .100 17 .100 31 .100 216 .370 11 .290 20 .234 146 .100 309 .228 241 .358 469 .100 67 .100 650 .2,092 2,976
11760	Section D; North Wall	0.143	0.155	0.138	0.364	0.290	o-XYLENE C10-C28 mg/kg mg/kg <0.100
11761	Section E; North Wall	<0.100	0.149	0.122	0.360	o-XYLENE C10-C28 mg/kg mg/kg mg/kg <0.100	
11762	Section E; East Wall	<0.100	<0.100	<0.100	0.118	<0.100	309
11763	Section E: West Wall	<0.100	0.158	0.150	0.434	0.228	241
11764	Section E; Bottom Hole	<0.100	0.225	0.157	0.680	0.358	469
11765	Bell Hole Area; South Wall	<0.100	0.129	<0.100	0.197	<0.100	67
11766	Bell Hole Area; West Wall	<0.100	<0.100	<0.100	<0.100	<0.100	720
11767	Bell Hole Area; East Wall	<0.100	<0.100	<0.100	0.111	<0.100	650
11768	Stockpile E-1						YLENE C10-C28 ng/kg mg/kg 0.100 163 0.100 290 0.100 17 0.100 31 0.100 216 .370 11 .290 20 .234 146 0.100 309 .228 241 .358 469 0.100 67 0.100 650 2.092 2.976
11769	Stockpile D-1						2,976
11770	Stockpile R-1A						1,233
	% IA	89	88	89	88	90	111

76 IA		89	88	89	88	90	111
% E/	4	104	105	105	103	106	113
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RPD		9	10	12	11	13	10

METHODS: SW 846-8020,5030, 8015M DRO

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Michael R. Fowler

<u>17-97</u> Date

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ENVIRONMENTAL LAB OF), **Inc.**

JUL 2 9 1997

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KEI

ATTN: THERESA NIX 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238 FAX: 210-680-3763 Fax: 505-396-2754

Receiving Date: 07/23/97 Sample Type: SOIL Project #: 710026 Project Location: TNM 97-10 Analysis Date: 07/23/97 Sampling Date: 07/22/97 Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH (DRO) C10-C28 mg/kg
11844	Bell Hole Area: West Wall	0.395	0.100	<.100	0.119	0,105	<10
11845	Bell Hole Area: East Wall	<.100	<.100	<.100	<.100	<.100	<10
11846	Section E: Bottom Hole	<.100	<.100	<.100	0.266	0.162	<10
11847	Section E: East Wall	<.100	<.100	<.100	<.100	<.100	<10
11848	Section E: North Wall	0.153	0.168	0.224	<.100	<.100	19
11849	Section E: West Wall	<.100	<.100	<.100	<.100	<.100	<10
11850	Section D: West Wall	0.291	0.143	<.100	0.159	0.112	<10
11851	Section A: Bottom Hole	0.250	0.109	<.100	0.168	0.121	<10
11852	Section B: Bottom Hole	0.178	<.100	<.100	<.100	<.100	19

% IA	102	102	105	100	103	85
% EA	90	90	92	87	91	108
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , 8015m DRO

Muhault Aichael R. Fowler

7-24-97 Date

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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131New Mexico New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	A
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: \square Non-Exempt: $\square - \beta \gamma \sim \frac{\beta \gamma}{\gamma \beta 4/\gamma}$	4. Generator TAMPL
Verbal Approval Received: Yes 🔀 No 🗔	5. Originating Site TWM-97-10
2. Management Facility Destination C+C Land Farm Inc.	6. Transporter Turner Trucking
3. Address of Facility Operator Zm: Scoth Monoment NM	8. State N.m.
7. Location of Material (Street Address or ULSTR)	Lea County
9. <u>Circle One</u> :	+ NM V
 A. All requests for approval to accept oilfield exempt wastes will be according to accept oilfield exempt wastes will be according to accept non-exempt wastes must be according to accept non-exempt wastes must be according to accept the material is not-hazardous and the Generator's certification listing or testing will be approved. 	mpanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
PRIEF DESCRIPTION OF MATERIAL:	
Crude oil Affected Soil	IJUL 2 4 1857
Estimated Volume 4700 cy Known Volume (to be entered by the ope	erator at the end of the haul) Cy
SIGNATURE: XMMM Transfer TITLE: President Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Jimme T. Cooper TEL	DATE: 7/24/97
(This space for State Use) APPROVED BY:	Emga DATE: 7/24/77
APPROVED BY:	DATE:
	······································

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

Originating Location: TNM Site 97-10 SEL/NEL 55, TZOS, REJE Source: Crude Oil BAPELine SPILL

Disposal Location: CtC Land Farm Inc. 2m: South Monument NM

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's July 1988 Regulatory Determination. To my knowledge, this waste will either be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous or has been verified non-hazardous due to "Knowledge of Process." I further certify that to my knowledge no "hazardous or listed wastes" pursuant to the provisions of 40 CFR Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3 (b).

I, the undersigned as the agent for the	Texas-N.M. PipeLine Co.
concur with the status of the waste from	

NAME John A. Savoie
TITLE/AGENCY Senior Tech
ADRESS P.D. Box 1030 Jel, N.M. 88252
SIGNATURE of the Q. Sauce
DATE 7-24-91

SUL 24 1997 RECEIVEL