3R - 218

REPORTS

DATE: 1996

Closure Checklist

Meter Code

89039

yes

Summary Site Map Site Assessment Sheet



Phase I Excavation

closure form soil analytical results soil chain-of-custody groundwater analytical results groundwater chain-of-custody bills of lading

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Phase II Soil Boring boring log soil analytical results soil chain-of-custody well installation form development form groundwater analytical groundwater chain-of-custody

Phase III Excavation

closure form soil analytical results soil chain-of-custody groundwater analytical groundwater chain of-custody bills of lading

Recon performed

groundwater analytical soil-gas analytical

YES

V 25

If item boxes are not checked they are not applicable





Marshall 'B'#1J Meter Code 89039

Pit was excavated to 7 feet beneath ground surface. Headspace soil readings from excavation bottom were 267 parts per million. Soil analytical were as follows; benzene - < 0.5 mg/kg, total BTEX - 55 mg/kg, TPH - 3,090 mg/kg.

One soil boring was completed and no monitoring well installed. Groundwater was encountered at approximately 19.5 feet. No groundwater samples were collected. Soil boring analytical results were as follows; benzene - <0.025 mg/kg, total BTEX - <0.1 mg/kg, TPH - 25.5 mg/kg.

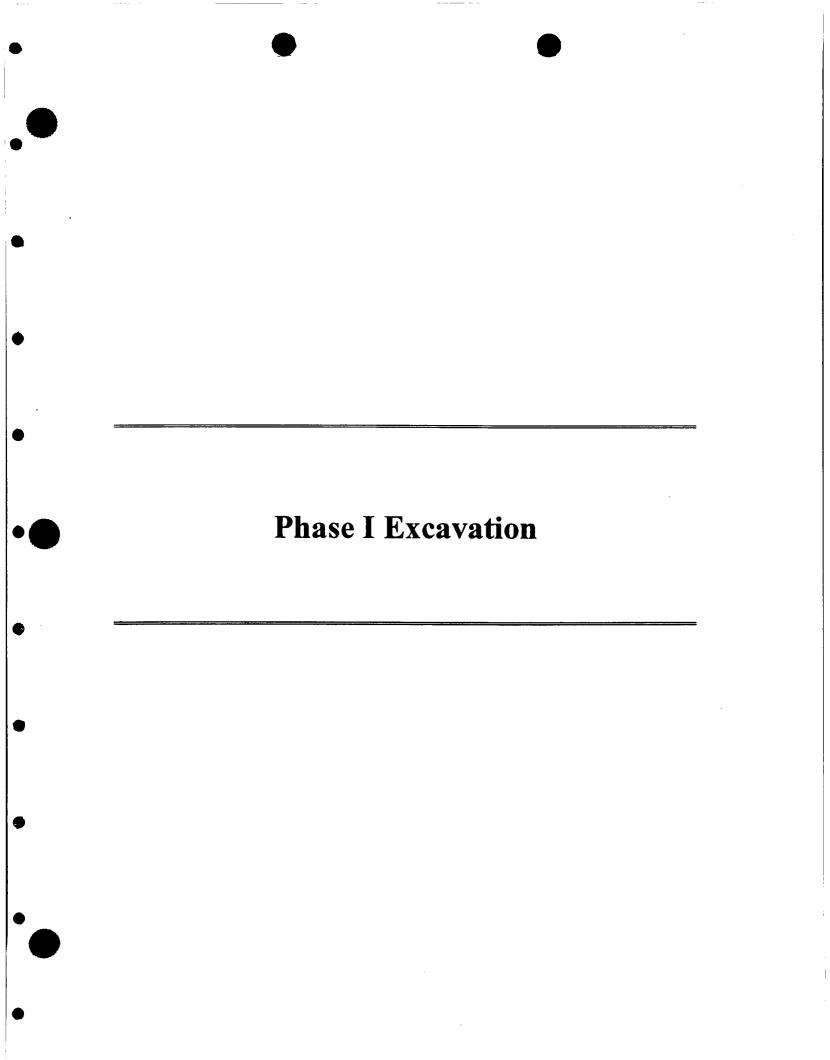
Pit was re-excavated to 11 feet beneath ground surface. Headspace soil readings were as follows: pit bottom composite- 893 ppm. Soil analytical from composite were as follows; benzene - < .5 mg/kg, total BTEX - <3 mg/kg, TPH - <10 mg/kg.

A RECON® survey was conducted and three soil gas samples were collected between the pit and Huerfanito Wash. The samples were collected and analyzed using a laboratory-grade gas chromatograph by Philip Environmental's RECON® System. No BTEX constituents were detected.

FIELD PIT SITE ASSESSMENT FORM

•	7	
•	GENERAL	Meter: 89039_Location: <u>Marshall 'B' #1J</u> Operator #: <u>0834</u> Operator Name: <u>Breck</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>O</u> Section <u>14</u> Township: <u>27</u> Range: <u>9</u> Or Latitude <u>Longitude</u> <u>District</u> Pit Type: Dehydrator <u>Location</u> Drip: <u>X</u> Line Drip: <u>Other</u> Site Assessment Date: <u>6-16-94</u> Area: <u>11</u> Run: <u>71</u>
•		NMOCD Zone:Land Type:BLM(1)(From NMOCDState(2)Maps)Inside(1)Fee(3)Outside(2)Indian
		Depth to Groundwater Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)
•	SESSMENT	Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or ; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)
	SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body <u>Huerfanito Canyon</u>
		(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'
		TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS
	۔ نہ	Remarks : One pit on location. Dry
	REMAR.	Inside V.Z. on Redline & Topo

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION Driginal Pit : a) Degrees from North 285 Footage from Wellhead 60 b) Length : 17 Width : 16 Depth : 3 16 17 16 10 16 285° Wellhead
REMARKS	Remarks : Photos - 1211 Bobtail Completed By:



•		FIELL TT REMEDIATION/CLOSUR FORM
	GENERAL	Meter: <u>89039</u> Location: <u>Marshall 3</u> <u>#15</u> Coordinates: Letter: <u>O</u> Section <u>14</u> Township: <u>27</u> Range: <u>9</u> Or Latitude <u>Longitude</u> Date Started : <u>8/19/94</u> Run: <u>11</u> <u>71</u>
	FIELD OBSERVATIONS	Sample Number(s): <u>KD Z29</u> Sample Depth: <u>7'</u> Feet Final PID Reading <u>Z67</u> PID Reading Depth <u>7'</u> Feet Yes No Groundwater Encountered I Approximate DepthFeet
	CLOSURE	Remediation Method : Excavation Approx. Cubic Yards 30 Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition:
	KEMARKS	Envirotech M L Tierra Other Facility Name: Pit Closure Date: <u>8/19/94</u> Pit Closed By: <u>BET</u> Remarks : <u>Excavatch pit to 7' Hit Sand Stone At His</u> Depth, Took piD Sample, Closed pit
		Signature of Specialist: May Dan



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

		Field ID	Lab ID
	SAMPLE NUMBER:	KD229	945982
	MTR CODE SITE NAME:	89039	Marshall B-1J
5	SAMPLE DATE TIME (Hrs):	08/19/94	1335
	PROJECT:		Phase I
	DATE OF TPH EXT. ANAL.:	08/24/94	08/24/94
•	DATE OF BTEX EXT. ANAL.:	08/25/94	08/26/94
•	TYPE DESCRIPTION:	VC	Light brown course sand

Field Remarks:

RESULTS

C. actor of Market	PARAMETER	RESULT	UNITS		QUALIFIE	RS	
				DF	D	M(g)	V(mi)
	BENZENE	<0.5	MG/KG	20			
	TOLUENE	24	MG/KG	20			
	ETHYL BENZENE	1.8	MG/KG	20			
	TOTAL XYLENES	29	MG/KG	20			
	TOTAL BTEX	55	MG/KG				
	TPH (418.1)	3090	MG/KG			2.13	28
	HEADSPACE PID	267	РРМ				
	PERCENT SOLIDS	96.7	%				

by EPA Method 418.1 and BTEX is by EPA Method 8020

rrative:

Surrogate Recovery was at _____66 % for this sample All QA/QC was acceptable.

erformed analyses.

DF = Dilution Factor Used

Approved By: Aun Hall

Date: 7/18/46

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Phase II Soil Boring

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•	GWL Depth Logged By Drilled By			Kindley				xs On-Site sonnel On-	 Site				
	Date/Time Sta Date/Time Co	arted	08	14195	1600		Drilling M Air Monit	ethod oring Metho	4 1/4 ID	HSA D, CGI			
				Sample				Depth				· · · · · · · · · · · · · · · · · · ·	
•			iample nterval	Type & Recovery	Sample Description Classification System: US	cs	USCS Symbol	Lithology Change	Unit	onitoring s: PPM		Drilling Conditions & Blow Counts	
	· · · ·			(inches)	Back Fill materia	1		(feet)	BZ	BH S			-
					BackFill materic to 7'	4							
•	- 5												
•							-						
		13	-15	1.0	SAND, black, medium	sained				100/	1624		
	15	•		2.0	SAND, black, medium loose, dry	0				122	10-1		
•				0.6	CINY Lark					0(
	20 2	10.	-20	2.0	CLAY dankgray, v SHFF, moist	ery				1	1630 • ωα	ster on 19.5	
					Boring terminated at	20'					•	500 00 1913	
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	.nments:		amp	e co	lected at 18' and		tted t			y Far	anal	ysis of	
•			BTE	X and	TPH. BH was g	routed	to	sur	ace	/		1	
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FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

		Field ID	Lab ID
	SAMPLE NUMBER:	JWK12	947228
	MTR CODE SITE NAME:	89039	Marshall B-1J
)	SAMPLE DATE TIME (Hrs):	08/14/95	1630
	PROJECT:	Phase	II Drilling
	DATE OF TPH EXT. ANAL.:	08/15/95	08/15/95
	DATE OF BTEX EXT. ANAL.:	08/19/95	08/19/95
,	TYPE DESCRIPTION:	VG	Dark gray clay

Field Remarks:

RESULTS

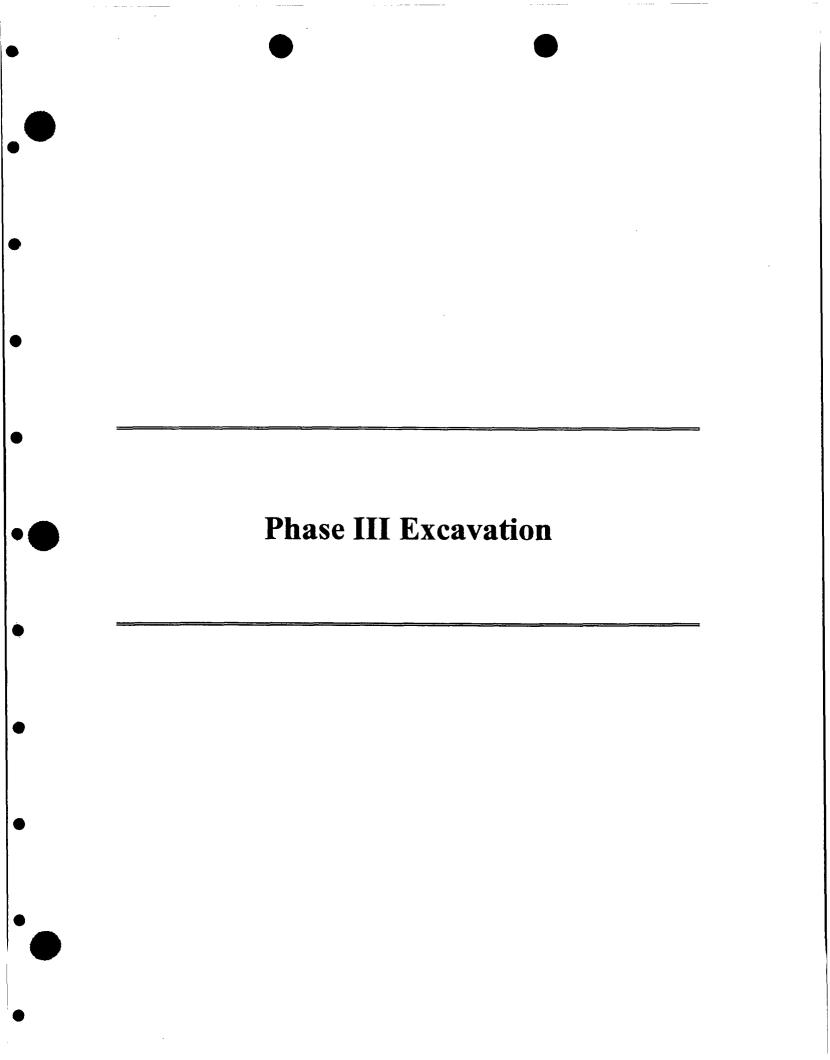
	PARAMETER	RESULT	UNITS		QUALIFIE	RS	
				DF	0	M(g)	V(ml)
	BENZENE	< 0.025	MG/KG	1			
	TOLUENE	<0.025	MG/KG	1			
	ETHYL BENZENE	< 0.025	MG/KG	1			
	TOTAL XYLENES	< 0.025	MG/KG	1			
	TOTAL BTEX	<0.10	MG/KG			·	
	TPH (418.1)	25.5	MG/KG			2.05	28
	HEADSPACE PID	0	РРМ				
	PERCENT SOLIDS	83.4	%				
)		TPH is by EPA Method	418.1 and BTEX is by EPA	Method 8020			
	Surrogate Recovery was at rative:	109	% for this sample	e All QA/QC	was accepta	ble.	

DF = Dilution Factor Used

Approved By: John Labour

Date: 7/18/96

· Page / of /	CONTRACT LABORATORY P. O. NUMBER		REMARKS	Huertorits No 17-2 71093 (20-22)	marshill b' # 1 71990 (25.27)	marital, B' # 13 89029									DATETIME AECEIVED BY: (Signature)		DATE/TIME RECEIVED OF LABORATORY BY: (Signature)		ELD SERVICES LABORATORY	EL PASO NATURAL GAS COMPANY P. O. BOX 4990	FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261	
	8	010	 [#		6	5							•			``			RESULTS & INVOICES TO:		9-2144	
-	SIS	010		Ø	<i>с</i>	\bigcirc									(9)	6.11	(e)		RESULT		505-599-2144	
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ual Gas Company	PROJECT NAME Pit Closure Project # 24324	W.	TIME	1250	1508	1								· · ·	(eru	 			ID TIME:			
cal Gas		T \		20/145	1 Erlyla	OEDI SPINAS					 				RELINQUISHED BY: (Signature)	\searrow	RELINQUISHED BY: (Signature)		REQUESTED TURNAROUND TIME: D ROUTINE D RUSH			
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FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL	Meter: <u>89039</u> Location: <u>Marshall</u> "B" #1J Coordinates: Letter: <u>D</u> Section <u>14</u> Township: <u>27</u> Range: <u>09</u>
GE	Or Latitude Longitude Date Started : <u>//-13-95</u> Area: <u>//</u> Run: <mark>7/</mark>
•	Sample Number(s): <u>INSI30</u> Sample Depth: <u>II</u> Feet Final PID Reading <u>893</u> PID Reading Depth <u>II</u> Feet Yes No Groundwater Encountered [(1)] (2) Approximate Depth <u>Feet</u> nal Dimensions: Length <u>28'</u> Width <u>24'</u> Depth <u>II</u>
CLOSURE •	Remediation Method : Excavation $\boxed{(1)}$ Approx. Cubic Yards $\frac{120 \text{ ur}}{1/(.7/4s)}$ Onsite Bioremediation $\boxed{(2)}$ Backfill Pit Without Excavation $\boxed{(3)}$ Soil Disposition: Overburden Cubic Yards $\frac{30 \text{ ur}}{1/(.7/4s)}$ Envirotech $\boxed{(1)}$ $\boxed{(1)}$ $\boxed{(3)}$ Other Facility $\boxed{(2)}$ Name: $\boxed{(3)}$
BEWerks	Pit Closure Date: 11-14-95 <u>APPOVED CLOSER BY: ALTON JAMES LEP.N.G.</u> Remarks: <u>EXCAUATED 7.4 TO 28424XII Hit SAND STONE C. 7</u> <u>PID READINGS: (N-11.3)(5-9.9)[E-1.2)(J-1.1) (Final composite 893 PDM)</u> CAUATED THEOUGH SANDSTONE APPEOX 3' CAN NOT EXCAUATE ANY JARTHER. 'EATED Bottom of Pit with 501h. of JERtilizer. Signature of Specialist: <u>Julias Schwaltz</u>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS130	947774
MTR CODE SITE NAME:	89039	Marshall B-1J
SAMPLE DATE TIME (Hrs):	11/13/95	0920
PROJECT:	Phase	III Excavation
DATE OF TPH EXT. ANAL.:	11/15/95	11/15/95
DATE OF BTEX EXT. ANAL.:	11/15/95	11/15/95
TYPE DESCRIPTION:	VG	Dark brown sand & clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIE	ERS	
			DF	0	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	< 10	MG/KG			2.05	28
HEADSPACE PID	893	PPM			1	
PERCENT SOLIDS	94.5	%		44 197		

e Surrogate Recovery was at arrative:

e Surrogate Recovery was at _____95 ___% for this sample All QA/QC was acceptable.

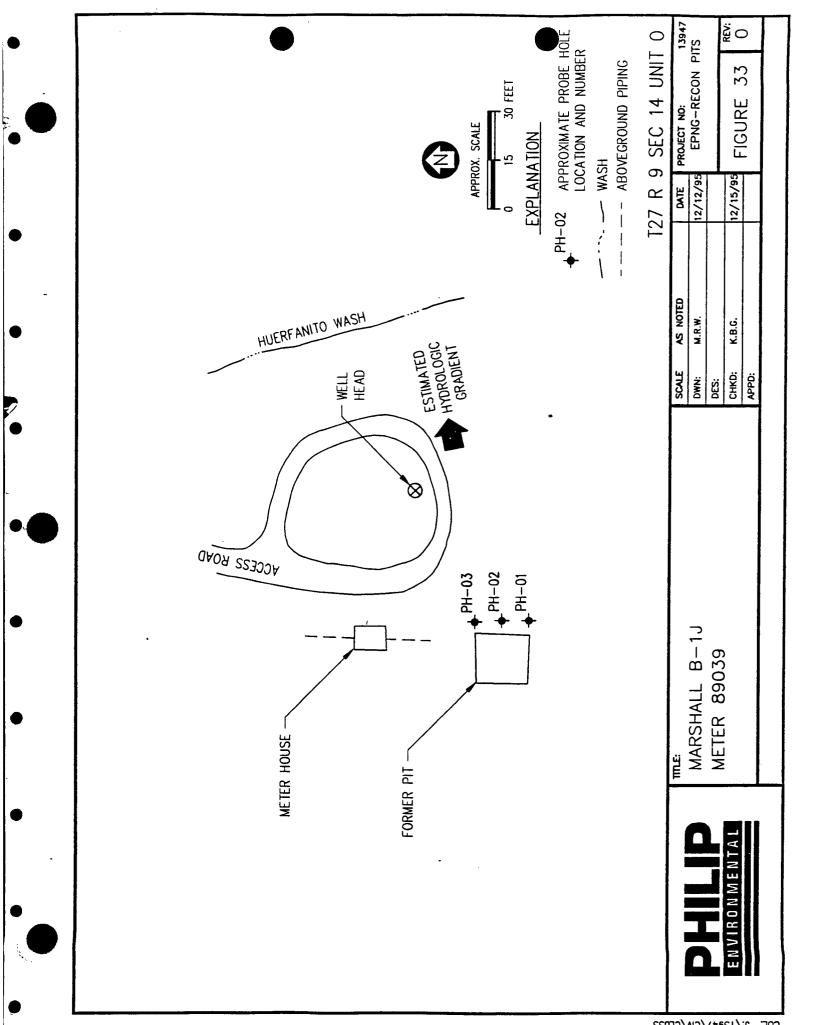
DF = Dilution Factor Used

Approved By: ____ John Laudr

Date: 7/18/41.

Page	CONTRACT LABORATORY P. O. NUMBER		REMARKS	89037 MARSHALL "B' #1J										DATE/TIME 30 RECEIVED BY: (Signature),	DATETIME RECEIVED OF LABORATORY BY: (Signal 114)	M P		EL PASO NATURAL GAS COMPANY P. O. BOX 4990	FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261	FM-08-0565 A (Rev. 05-94)
-		Ц # IЕИСЕ		<u> </u>					 		 		/	"	n		RESULTS & INVOICES TO:		505-599-2144	
CHAIN OF CUSTODY RECORD	REQUESTED ANALYSIS										-/			RELINQUISHED BY: (Signature)	ALINOUISHED BY: (Signature)		u.			•
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€H ●	├ ───		101) 40	/ /	•				 \square					gnature)	Gnature)		REMARKS			
•		: 13-75	FIELD ID	NS130										BECEIVED BY: (Signature)	RECEIVED BY: (Signature)		SAMPLE RECEIPT REMARKS		CHARGE CODE	Sampler
L'HOW .	ect	DATE: 1/- 1	RIX				-/	/	 					S C C C C C C C C C C C C C C C C C C C	-5-					Pink - Field Sampler
	re Pro	11	TIME MATRIX	0520 SOIL		7	<u>/</u>							50				-		Canary - EPNG Lab
iompanu	PIOJECT NAME Pit Closure Project	Si horal Tr	DATE	11.13-55 09	7	/			 					(a)	(9)		TIME:			
Na.ural Gas Company WWW IT + Cum	РЕОЛЕСТ NUMBER РЕО # 24324 Рі	SAMPLERS: (Signature)		<i>`M</i> `						•				RELINQUISHED BY: (Signatura)	RELINOUISHED BY: (Signature)		REQUESTED TURNAROUND TIME: C ROUTINE C RUSH	CARRIER CO.	BILL NO.:	White - Testing Laboratory

RECON®



2 HILIP

RECON SAMPLE ANALYSIS

DATA SUMMARY TABLE Project: 13947

	Probe Hole	Depth	Benzene	Toluene	Ethyl benzene	m+p-Xylene	o-Xylene	
Sample I.D.	Number	(feet)	(ug/L)	(ng/L)	(ug/L)		(ug/L)	Comments
LINDRUTHB24-02	PH-02	21-27	7	2	(1)QN	1>	(1)QN	Groundwater
LINDRITHB24-03	PH-03	21-27	34	2	50	194	72	Groundwater
LINDRITHB24-03-D	PH-03	21-27	34	10	52	202	102	QC - Duplicate
LINDRITHB24-03-MS	PH-03	21-27	169	2,598	2,945	3,643	3,008	QC - Matrix Spike
Blank-95	N/A	N/A	(1)QN	(I)DN	ND(1)	(1)DN	(I)DN	QC - System Blank
QCRT-31	N/A	N/A	6	545	588	579	600	QC - Retention Times
Blank-96	N/A	N/A	ND(1)	(1)QN	(I)DN	(1)DN	(I)DN	QC - System Blank
STD-1206	N/A	N/A	12	705	705	706	707	Calibration Standard
Blank-97	N/A	N/A	(I)DN	(1)UN	(I)DN	(1)DN	(1)DN	QC - System Blank
Blank-98	N/A	N/A	ND(1)	(1)UN	(1)DN	(1)DN	(1)DN	QC - Probe Rod Blank
SJU28679PM-01	10-Hd	30-36	3	4	~	2	-	Groundwater
SJU28679PM-02	PH-02	30-36	ND(1)	~	(I)DN	ND(1)	(1)DN	Groundwater
SJU28679PM-03	PH-03	30-36	73	152	28	220	77	Groundwater
SJU28679PM-04	PH-04	30-36	2,460	10,168	1,592	12,140	3,552	Groundwater
SJU28679PM-05	PH-05	30-36	6,349	14,827	2,505	19,685	7,288	Groundwater
SJU28679PM-06	90-Hd	30-36	4,329	11,327	1,611	11,542	3,577	Groundwater
SJU28679PM-07	PH-07	30-36	ND(1)	9	(1)QN	(1)DN	(I)QN	Groundwater
SJU28679PM-06-D	90-Hd	30-36	3,852	11,043	1,501	10,957	3,377	QC - Duplicate
SJU28679PM-06-MS	PH-06	30-36	4,364	14,581	4,888	17,736	7,787	QC - Matrix Spike
Blank-99	N/A	N/A	(I)DN	(1)QN	(1)QN	(1)QN	(1)QN	QC - System Blank
QCRT-32	N/A	N/A	6	499	466	446	515	QC - Retention Times
Blank-100	N/A	N/A	(1)DN	(1)UN	(I)QN	(1)QN	(1)QN	QC - System Blank
STD-1207	N/A	N/A	12	705	705	706	707	Calibration Standard
Blank-101	N/A	N/A	(1)DN	(1)QN	(1)QN	(1)QN	(1)QN	QC - System Blank
Blank-102	N/A	N/A	(I)QN	(1)UN	(1)QN	(1)DN	(1)QN	QC - Probe Rod Blank
MBIJ-01	10-H4	18-20	(I)QN	(1)QN	(1)QN	(1)QN	(1)QN	Soil-gas
MB1J-02 -	PH-02	6	(I)DN	(I)QN	(I)QN	(1)DN	(1)UN	Soil-gas
MB1J-03	PH-03	8	(1)QN	(1)QN	(1)QN	(1)QN	(1)QN	Soil-gas

D = duplicate analysis.

QC = quality control.

ug/L = micrograms of compound detected per liter of soil or groundwater vapor analyzed. ND - not detected at the lower quantifiable limit indicated in parenthesis. N/*i* not applicable. MS = matrix spike.

Review Date:

95-11-12 75 96-18-1 fail top deser QA Review: