

SITE CLOSURE REQUEST

Livingston Ridge Station
NW ¼ of the NW ¼ of Section 6, Township 22 South, Range 32 East
Lea County, New Mexico
Latitude: North 32° 25' 35.9"
Longitude: West 103° 43' 21.3"

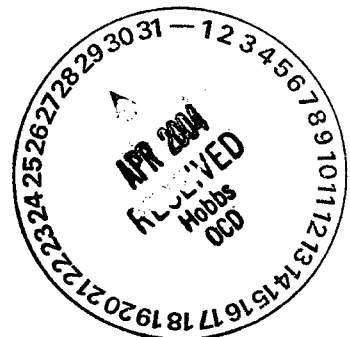
Prepared For:
Link Energy
5805 East Highway 80
Midland, Texas 79701

ETGI Project # LI 2105

Prepared By:
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, New Mexico 88240

Claims - 34053
facility - FPAC0602431202
inspect - ePAC0602431319
incident - nPAC0602431353
application - pPAC0602431633

April 2004



April 20, 2004

Bureau of Land Management
ATTN: Mr. Paul Evans
620 East Greene Street
Carlsbad, New Mexico 88220

RE: Link Energy Release
Livingston Ridge Station
NW $\frac{1}{4}$ of NW $\frac{1}{4}$, Section 6, Township 22 South, Range 32 East
Lea County, New Mexico

Dear Mr. Evans:

On behalf of Link Energy (formerly EOTT Energy) Environmental Technology Group, Inc. (ETGI) submits the following request for closure of the Livingston Ridge Station release site located in the NW $\frac{1}{4}$ of NW $\frac{1}{4}$, Section 6, Township 22 South, Range 32 East. The Bureau of Land Management is the landowner and Link Energy is the surface lessee. For reference, a Site Location Map is attached as Figure 1.

ETGI conducted an emergency response on December 7, 2002 at 11:30 p.m. after receiving a request from Link Energy personnel that a release had occurred at the Livingston Ridge Pump Station due to a mechanical failure of the packing gland on one of the 1700 GASCO pumps. The pump was shutdown by Link Energy personnel and ETGI personnel began the assessment and cleanup of the site. Approximately 100 barrels of crude oil was released within a bermed area and approximately 75 barrels were recovered by a vacuum truck. The recovered crude oil was reintroduced back into the Link Energy pipeline on-site. Soil impacted by the release was excavated utilizing a backhoe and temporarily placed on 40-mil plastic lining on-site. The majority of impacted soil was contained inside the bermed area with a minimal area of impacted soil located along Highway C-29 right-of-way, as depicted on Figure 2, the Site Map.

The New Mexico State Engineer's Office (NMSEO) Water Well Data Base was accessed for information regarding the depth to groundwater in the site area and the existence of registered water wells in the area. No records were found during the database search indicating that the probability of shallow groundwater in the area was low. Based on the NMOCD soil classification system, no points would be assigned to the site as a result of this criterion. The NMSEO Roswell, New Mexico was contacted by telephone to request additional information that was possibly not available on the network database. Their search did not reveal any records of registered water wells in the site area. Based on the NMOCD soil classification system, no points would be assigned to the site as a result of this criterion. Review of topographic maps and area surveillance did not locate any surface water bodies within 1,000 feet of the site. An intermittent stream shown on Figure 1 is approximately 430 feet south of the site. At the time of site activities, no water or moisture was observed in this feature. Based on the NMOCD soil classification system, no points would be assigned to the site as a result of this criterion.

A NMOCD ranking score of <9 is assigned to the site with remedial action levels of:

Benzene	10 ppm
BTEX	50 ppm
TPH	5000 ppm

Upon completion of the excavation activities confirmation samples were collected from the excavation sidewalls and bottom ranging from a depth of eight inches below ground surface (bgs) to two and a half feet bgs. A review of laboratory analytical results generated from analysis of confirmation soil samples (S. Exc. 1, 2 and 3), indicate soil in the excavated areas is below the applicable NMOCD regulatory standards for BTEX and TPH concentrations as shown on Table 1, Concentrations of BTEX and TPH in Soil. Excavated soil was blended and shredded on-site and nitrogen enriched nutrients were added to enhance biodegradation rates and expedite the remediation process. Soil samples were collected from every 250 cubic yards of treated soil following the blending process. Review of the laboratory analytical results generated from analysis of samples collected from treated soil indicated that TPH and BTEX concentrations in stockpiles one and two (1 and 2) exceeded applicable NMOCD regulatory standards upon completion of the first blending procedure. Non-impacted soil obtained on-site was mixed with the impacted soil during a second blending procedure and further enhanced with nitrogen-enriched nutrients. Review of the laboratory analysis of confirmation samples collected following the second blending procedure indicated that TPH and BTEX concentrations in the soil composing these the stockpiles was below applicable NMOCD regulatory standards, Table 1. The treated soil was utilized as backfill material in the excavated areas and contoured to approximate the pre-release site configuration.

ETGI, on behalf of Link Energy, requests that the Livingston Ridge Station release site be considered closed by the NMOCD under New Mexico Title 19 standards.

Sincerely,



Camille Reynolds

Project Manager

ETGI

Hobbs, New Mexico

505-397-4882 office

505-397-4701 fax

505-631-3775 cell

cc: Larry Johnson, NMOCD, Hobbs, NM
Jeff Dann, Link Energy, Houston, TX
Jimmy Bryant, Link Energy, Midland, TX
ETGI, Midland, TX

Attachments:

Figures 1, 2 and 3

NMOCD C-141

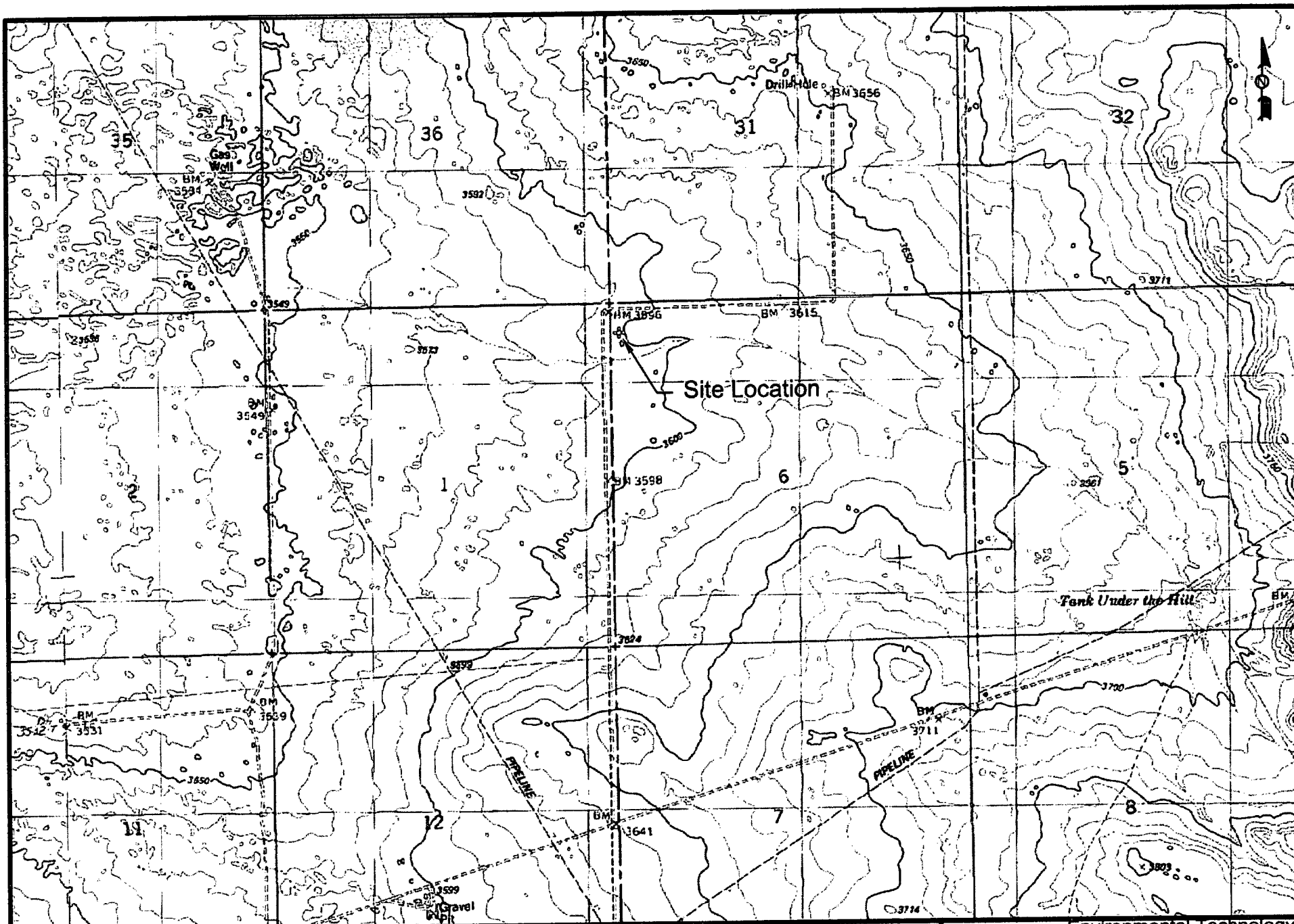
Table 1: Concentrations of BTEX and TPH in Soil

Record of Communication: NMSOE, December 9, 2001

NMOSE Data Base Water Well Search

Copies of Laboratory Reports

FIGURES



NW1/4 NW1/4 Section 6, T22S, R32E

Legend:
 - - - - - Intermittent Stream

2000 1000 0 1000 2000
 Distance in Feet

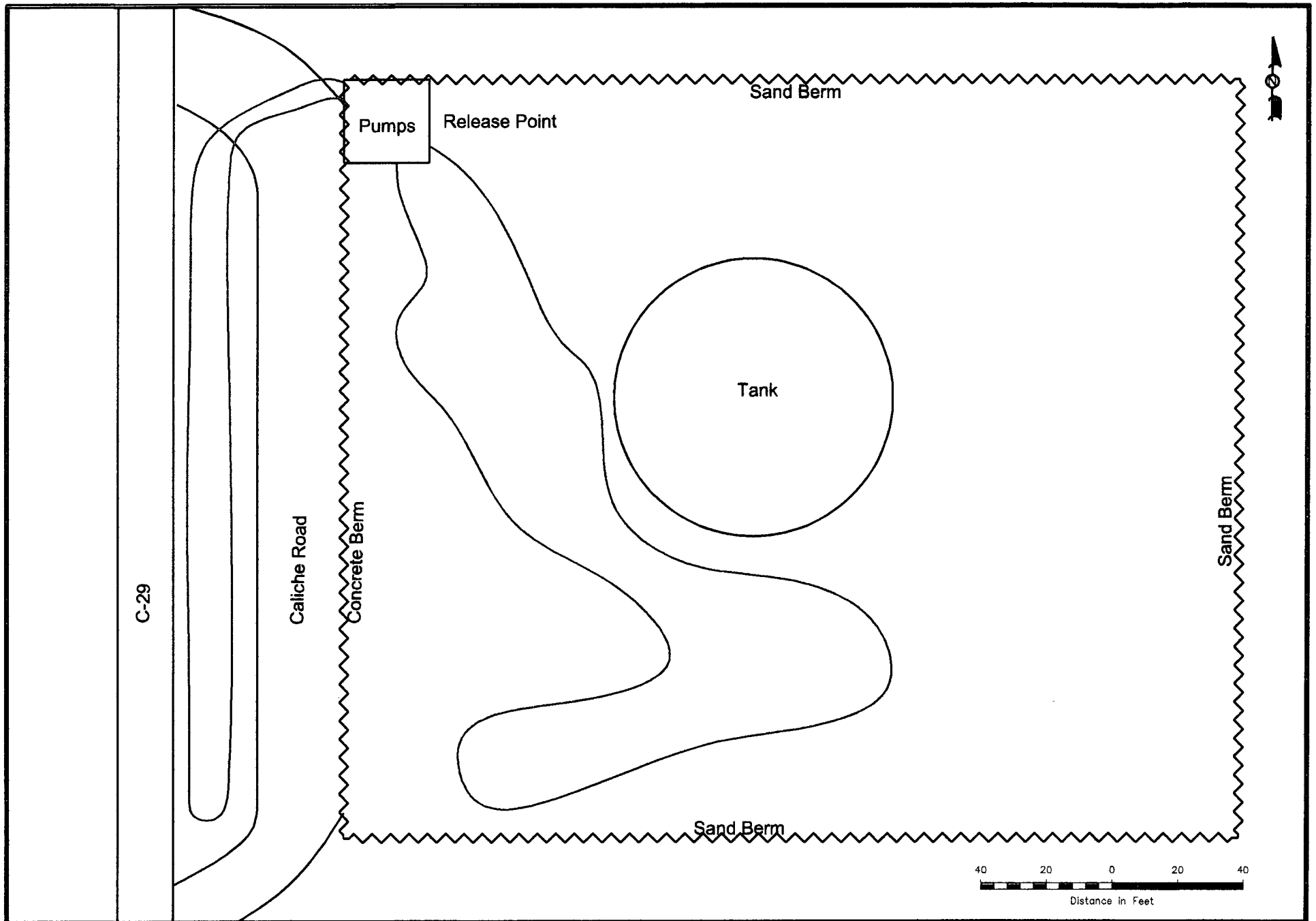
Figure 1
 Site Location Map

Link Energy
 Livingston Ridge Station
 Lea County, NM



Environmental Technology
 Group, Inc.

Scale: 1" = 2000'	Prep By: JDI	Checked By: KD
April 28, 2003		
ETGI Project #: LI 2105		Lat. N32° 25' 35.9" Long. W103° 48' 21.3"

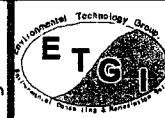


Legend:
 — Extent of Surface Stain
 ~ Impoundment Berm

NW1/4 NW1/4 Section 6, T22S, R32E

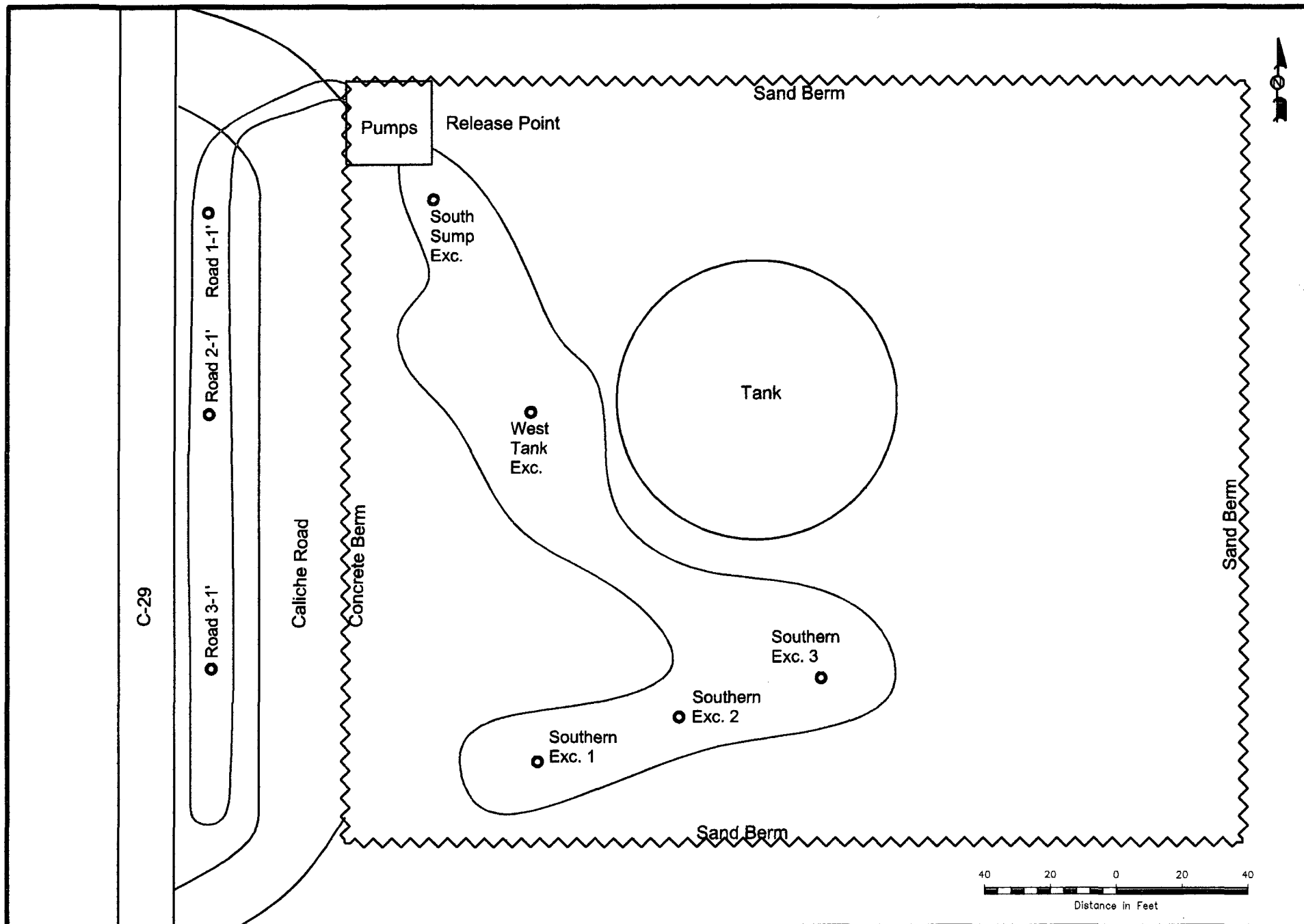
Figure 2
 Site Map

Link Energy
 Livingston Ridge Station
 Lea County, NM



Environmental Technology
 Group, Inc.

Scale: 1" = 40'	Prep By: JDI	Checked By: KD
April 28, 2003		
ETGI Project #: LI 2105	Lat. N32° 25' 35.9 Long. W103° 43' 21.3"	



Legend:

- Extent of Surface Stain
- Sample Point
- ~ Impoundment Berm

NW1/4 NW1/4 Section 6, T22S, R32E

Figure 3
Sampling Locations

Link Energy
Livingston Ridge Station
Lea County, NM



Environmental Technology
Group, Inc.

Scale: 1" = 40'	Prep By: JDJ	Checked By: KD
April 26, 2003		
ETGI Project #: LI 2105	Lat. N32° 25' 35.9" Long. W103° 43' 21.3"	

NMOCD C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: EOTT Energy LLC	Contact ☐ Jimmie Bryant	
Address: P. O. Box 1660	Telephone No. ☐ 915-634-8786	
Facility Name Livingston Ridge Station	Facility Type ☐ Pumping Station	
Surface Owner BLM/Eott Lease	Mineral Owner BLM	Lease No. ☐

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
NW4/NW4	S6	T22S	R32E					Lea

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 100 BBL	Volume Recovered ☐ 75 BBL
Source of Release 1700 GASO Pump	Date and Hour of Occurrence December 8, 2002	Date and Hour of Discovery ☐ December 7, 2002 2230
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson, NMOCD, Hobbs Office	
By Whom? ☐ Ken Dutton, ETGI	Date and Hour ☐ December 9, 2002	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

300' + Gw
Depth

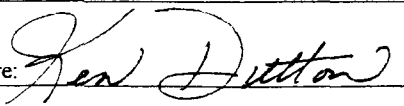
Describe Cause of Problem and Remedial Action Taken.*

Broken Stud on Packing Bland on the 1700 GASO Pump. Pump shut down and back-up pump put on-line. Stud and packing bland replaced, Monday, December 9, 2002.

Describe Area Affected and Cleanup Action Taken.*

Containment area inside bermed area and Highway C-29 right-of-way area. Both areas were excavated and impacted soil placed on 60 mil plastic liner. Highway warning barrels were placed on C-29 to warn motorist of drop-off adjacent to the highway. Contaminated soil was blended to NMOCD regulatory standards.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Ken Dutton	Approved by ☐ District Supervisor:	
Title: Project Manager, Environmental Technology Group, Inc.	Approval Date:	Expiration Date:
Date: March 17, 2003 Phone: (505) 397-4882	Conditions of Approval:	Attached ☐

* Attach Additional Sheets if Necessary

TABLE 1
Concentrations of BTEX and TPH in Soil

TABLE 1
CONCENTRATIONS OF BTEX AND TPH IN SOIL

LINK ENERGY
LIVINGSTON RIDGE STATION
LEA COUNTY, NEW MEXICO
ETGI PROJECT #LI2105

Results are reported in mg/kg.

SAMPLE LOCATION	SAMPLE DATE	Method: 8021B / 5030 BTEX					8015M		
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	GRO	DRO	TPH
BG 1	12/08/02	<0.025	<0.025	0.028	0.081	0.109	<10.0	<10.0	<10.0
BG 2	12/08/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Road 1 1'	12/09/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Road 2 1'	12/09/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Road 3 1'	12/09/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0
Southern Exc. 1	12/09/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	46.6	46.6
Southern Exc. 2	12/09/02	0.345	4.07	4.09	15.94	24.45	714	2390	3104
Southern Exc. 3	12/09/02	<0.025	<0.025	<0.025	<0.025	<0.025	14.9	13.3	28.2
Comp. Exc. Soil	12/09/02	4.21	29.5	19.9	76.5	130.11	4410	13000	17410
Comp. Exc. Soil	12/09/02	9.12	43.9	25.0	85.9	163.92	7210	27500	34710
South Sump Exc.	12/10/02	0.145	0.729	0.815	3.64	5.33	265	896	1161
West Tank Exc.	12/10/02	0.325	2.07	1.62	5.89	9.91	374	1780	2154
Shredded Soil #1	12/19/02	1.74	11.7	9.01	29.01	51.46	1290	3950	5240
Shredded Soil #2	12/19/02	0.547	5.77	5.51	20.08	31.91	1110	4750	5860
S/P 1	01/09/03	0.178	2.60	3.23	12.74	18.75	933	3800	4730
S/P 1	01/16/03	<0.025	0.030	0.075	0.327	0.432	<50.0	2140	2140
S/P 2	01/09/03	0.379	4.64	3.39	14.98	23.39	908	4520	5430
S/P 2	01/16/03	<0.025	0.104	0.18	1.178	1.46	165	3170	3335
S/P 3	01/16/03	0.027	0.13	0.281	1.53	1.97	308	3260	3568
NMOCD Standard	-	10.0	-	-	-	50.0	-	-	5,000

RECORD OF COMMUNICATION
STATE ENGINEER'S OFFICE

RECORD OF COMMUNICATION
Environmental Technology Group, Inc.

From: R. EDSON	To: KEN FRESQUEZ
With: ETGI	With: NM STATE ENGINEERS OFFICE
Date: 12/9/02	Time: 10:25

LIVINGSTON RIDGE STATION EMERGENCY RESPONSE EO 2105

CONTACTED MR. FRESQUEZ ASKING HIM FOR INFORMATION ON
AVERAGE DEPTH TO GROUNDWATER IN THE SITE AREA. HE STATED
HIS DATABASE (AND MAP REVIEW) SHOWED NO RECORDS IN THE
AREA (T 22 S, R 32 E, SEC. 6).

R. EDSON

**NEW MEXICO STATE ENGINEER'S DATA BASE WATER
WELL SEARCH**

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 22S Range: 32E Sections: 6

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 04/22/2004

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 22S Range: 32E Sections: 4,5,6,7

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

WELL / SURFACE DATA REPORT 04/22/2004

(quz

(quz

DB File Nbr	(acre ft per annum) Use	Diversion	Owner	Well Number
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No Records found, try again

ANALYTICAL RESULTS

COPY

ANALYTICAL REPORT

Prepared for:

KEN DUTTON

Environmental Technology Group, Inc.

2540 W. MARLAND

HOBBS, NM 88240

Project: Livingston Ridge Station

PO#:

Order#: G0205217

Report Date: 12/12/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

COPY

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample:</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M 8021B/5030 BTEX					
0205217-08	Comp Exc Soil	SOIL	12/9/02 15:20	12/11/02 7:50	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0.5 C		
	8015M 8021B/5030 BTEX					
0205217-09	South Sump Exc	SOIL	12/10/02 13:00	12/11/02 7:50	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0.5 C		
	8015M 8021B/5030 BTEX					
0205217-10	BG 1	SOIL	12/8/02 10:31	12/11/02 7:50	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0.5 C		
	8015M 8021B/5030 BTEX					
0205217-11	BG 2	SOIL	12/8/02 10:36	12/11/02 7:50	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0.5 C		
	8015M 8021B/5030 BTEX					
0205217-12	West Tank Exc	SOIL	12/10/02 14:15	12/11/02 7:50	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0.5 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-01
Sample ID: Road 1 1'

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO. C6-C12	<10.0	10.0
DRO. >C12-C35	<10.0	10.0
TOTAL C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	71%	70	130
1-Chlorooctadecane	74%	70	130

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor		
0004047-02		12/11/02 11:56	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	99%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 12

ENVIRONMENTAL LAB OF TEXAS LTD.

2900 West 140 East, Odessa, TX 79765 Ph: 915-363-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-02
Sample ID: Road 2 1'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	69%	70	130
1-Chlorooctadecane	70%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004047-02		12/11/02 12:18	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
1,2,4-Trimethylbenzene	85%	80	120
Bromofluorobenzene	94%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-03
Sample ID: Road 3 1'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	68%	70	130
1-Chlorooctadecane	70%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0004047-02		12/11/02 12:40	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	95%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-04
Sample ID: Southern Exc 1

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	46.6	10.0
TOTAL, C6-C35	46.6	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	81%	70	130
1-Chlorooctadecane	87%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004047-02		12/11/02 13:02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
1,2,4,5-Toluene	90%	80	120
Bromofluorobenzene	95%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-05
Sample ID: Southern Exc 2

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		12/11/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	714	50.0
DRO, >C12-C35	2390	50.0
TOTAL, C6-C35	3,104	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	14%	70	130
1-Chlorooctadecane	23%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004047-02		12/11/02	1	25	CK	8021B
		13:24				

Parameter	Result mg/kg	RL
Benzene	0.345	0.025
Ethylbenzene	4.09	0.025
Toluene	4.07	0.025
p/m-Xylene	11.0	0.025
o-Xylene	4.94	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	175%	80	120
Bromofluorobenzene	115%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-06
Sample ID: Southern Exc 3

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u> </u>	<u> </u>
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	14.9	10.0
DRO, >C12-C35	13.3	10.0
TOTAL, C6-C35	28.2	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	75%	70	130
1-Chlorooctadecane	79%	70	130

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u> </u>	<u> </u>
0004047-02		12/11/02 17:14	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	93%	80	120

DL = Diluted out NA = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-07
Sample ID: Comp Exc Soil

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8015M</u>
		12/11/02	1	10		

Parameter	Result mg/kg	RL
GRO, C6-C12	4410	100
DRO, >C12-C35	13000	100
TOTAL, C6-C35	17,410	100

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	13%	70	130
1-Chlorooctadecane	27%	70	130

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8021B</u>
0004047-02		12/11/02 17:34	1	100		

Parameter	Result mg/kg	RL
Benzene	4.21	0.100
Ethylbenzene	19.9	0.100
Toluene	29.5	0.100
p/m-Xylene	53.0	0.100
o-Xylene	13.5	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	634%	80	120
Bromofluorobenzene	125%	80	120

DL = Diluted out NA = Not Applicable RL = Reporting Limit

Page 7 of 12

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-08
Sample ID: Comp Exc Soil

3015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		12/11/02	1	10	CK	8015M

Parameter	Result mg/kg	RL
GRO. C6-C12	7210	100
DRO. >C12-C35	27500	100
TOTAL. C6-C35	34710	100

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	17%	70	130
1-Chlorooctadecane	72%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004047-02		12/11/02 17:58	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	9.12	0.100
Ethylbenzene	25.0	0.100
Toluene	43.9	0.100
p/m-Xylene	61.7	0.100
o-Xylene	24.2	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	925%	80	120
Bromofluorobenzene	153%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 8 of 12

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-09
Sample ID: South Sump Exc

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	265	10.0
DRO, >C12-C35	896	10.0
TOTAL, C6-C35	1,161	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	96%	70	130
1-Chlorooctadecane	100%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004047-02		12/12/02 8:12	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.145	0.025
Ethylbenzene	0.815	0.025
Toluene	0.729	0.025
p/m-Xylene	2.79	0.025
o-Xylene	0.850	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	199%	80	120
Bromofluorobenzene	118%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-10
Sample ID: BG 1

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	79%	70	130
1-Chlorooctadecane	85%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004047-02		12/12/02 13:13	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.028	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.081	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	38%	80	120
Bromofluorobenzene	103%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-11
Sample ID: BG 2

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor	CK	8015M
		12/11/02	1	1		

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	88%	70	130
1-Chlorooctadecane	101%	70	130

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor	CK	8021B
0004047-02		12/12/02	1	25		
		8:54				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
1,2,4-Trichlorobenzene	82%	80	120
Bromofluorobenzene	92%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS, LTD.

2600 West 14th East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea County, NM

COPY

Lab ID: 0205217-12
Sample ID: West Tank Exc

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		12/11/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	374	10.0
DRO, >C12-C35	1,780	10.0
TOTAL, C6-C35	2,154	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	98%	70	130
1-Chlorooctadecane	108%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004047-02		12/12/02	1	25	CK	8021B
		9:15				

Parameter	Result mg/kg	RL
Benzene	0.325	0.025
Ethylbenzene	1.62	0.025
Toluene	2.07	0.025
p/m-Xylene	4.47	0.025
o-Xylene	1.42	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	156%	80	120
Bromofluorobenzene	118%	80	120

Approval: Roland K. Tuttle 12-12-02
 Roland K. Tuttle, Lab Director, QA Officer Date
 Coley D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugue, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0205217

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<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004046-02			<10.0		
<i>MS</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205217-01	0	952	1030	108.2%	
<i>MSD</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0205217-01	0	952	1020	107.1%	1.0%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004046-05		1000	877	87.7%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205217

COPY

BLANK		SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg			0004047-02			<0.025		
Ethylbenzene-mg/kg			0004047-02			<0.025		
Toluene-mg/kg			0004047-02			<0.025		
p/m-Xylene-mg/kg			0004047-02			<0.025		
o-Xylene-mg/kg			0004047-02			<0.025		
MS		SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg			0205217-01	0	0.1	0.088	88.0%	
Ethylbenzene-mg/kg			0205217-01	0	0.1	0.092	92.0%	
Toluene-mg/kg			0205217-01	0	0.1	0.090	90.0%	
p/m-Xylene-mg/kg			0205217-01	0	0.2	0.197	98.5%	
o-Xylene-mg/kg			0205217-01	0	0.1	0.093	93.0%	
MSD		SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg			0205217-01	0	0.1	0.091	91.0%	3.4%
Ethylbenzene-mg/kg			0205217-01	0	0.1	0.094	94.0%	2.2%
Toluene-mg/kg			0205217-01	0	0.1	0.094	94.0%	4.3%
p/m-Xylene-mg/kg			0205217-01	0	0.2	0.202	101.0%	2.5%
o-Xylene-mg/kg			0205217-01	0	0.1	0.096	96.0%	3.2%
SRM		SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg			0004047-05		0.1	0.088	88.0%	
Ethylbenzene-mg/kg			0004047-05		0.1	0.092	92.0%	
Toluene-mg/kg			0004047-05		0.1	0.091	91.0%	
p/m-Xylene-mg/kg			0004047-05		0.2	0.197	98.5%	
o-Xylene-mg/kg			0004047-05		0.1	0.094	94.0%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

COPY

Prepared for:

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205217

Project: Livingston Ridge Station

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Road 1 1'	0205217-01	SOIL	12/09/2002	12/11/2002
Road 2 1'	0205217-02	SOIL	12/09/2002	12/11/2002
Road 3 1'	0205217-03	SOIL	12/09/2002	12/11/2002
Southern Exc 1	0205217-04	SOIL	12/09/2002	12/11/2002
Southern Exc 2	0205217-05	SOIL	12/09/2002	12/11/2002
Southern Exc 3	0205217-06	SOIL	12/09/2002	12/11/2002
Comp Exc Soil	0205217-07	SOIL	12/09/2002	12/11/2002
Comp Exc Soil	0205217-08	SOIL	12/09/2002	12/11/2002
South Sump Exc	0205217-09	SOIL	12/10/2002	12/11/2002
BG 1	0205217-10	SOIL	12/08/2002	12/11/2002
BG 2	0205217-11	SOIL	12/08/2002	12/11/2002
West Tank Exc	0205217-12	SOIL	12/10/2002	12/11/2002

Surrogate recoveries on the 8015M TPH are outside the control limits because they were diluted out. (0205217-05,07,08)

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0205217-05,07,08,09,12)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Environmental Lab of Texas A. Ltd.

Date: 12-12-02

		For Use On EOTT ENERGY CORP. Projects Only		EOTT ENERGY CORP. 4800 West Wall Midland, TX 79703 Tel (915) 522-1139 Fax (915) 520-4310		2540 West Marland Hobbs, NM 88242 Tel (505) 397-4882 Fax (505) 397-4701		EOTT ENERGY CORP. East Business 20 Midland, TX 79702 (915) 637-3400 (915) 582-2781		5805 Midland, TX 79702 Tel Fax										
		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST																		
Project Manager: KEN DUTTON				EOTT Leak Number:				ANALYSIS REQUEST coe: 207 (Circle or Specify Method No.) RUSH												
Project Name: LIVINGSTON RIDGE STATION				ETGI Project Number: E02145																
Project Location: LEN CITY, NM				Sampler Signature: <i>[Signature]</i>																
LAB # (Lab Use Only)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX	PRESERVATION METHOD	SAMPLING	DATE	TIME	BTX 8021B/5030	TPH 418.1/TX 1005	TPH 8015M GRO/DRO	PAH 8270C (BTX New Mexico only)	Total Metals Ag As Ba Cd Cr Cu Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	Volatiles 8260S	Semi Volatiles 8270C	TDS 1621	Cations/Anions 375.4/205.3
0205217	ROAD 1 1'	14		X			12/9	7455	X	X										
02	ROAD 2 1'							7505												
03	ROAD 3 1'							1510												
04	SOUTHERN EYE 1							1430												
05	SOUTHERN EYE 2							1440												
06	SOUTHERN EYE 3							1445												
07	COMP EYE SOIL							1515												
08	COMP EYE SOIL							1520												
09	SOUTH SLUMP EYE						12/10	1340												
10	BG 1						12/8	1030												
11	BG 2						12/8	1036												
12	WEST TANK, EYE						12/10	1415												
Relinquished by: <i>[Signature]</i> Date: 10 DEC 02 Time: 1420				Received by: <i>[Signature]</i> Date: 12/10/02 Time: 1420				REMARKS: RUSH - 24 HR TURN AROUND 0.5C 4oz GLASS												
Relinquished by: <i>[Signature]</i> Date: 12/11/02 Time: 7:50				Received by: <i>[Signature]</i> Date: 12/11/02 Time: 7:50																

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ANALYTICAL REPORT

Prepared for:

KEN DUTTON

Environmental Technology Group, Inc.

2540 W. MARLAND

HOBBS, NM 88240

Project: Livingston Ridge

PO#: EO 2105

Order#: G0205301

Report Date: 12/23/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0205301
Project: EO 2105
Project Name: Livingston Ridge
Location: Lea Cty.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205301-01	Shredded Soil #1	SOIL	12/19/02 8:45	12/19/02 17:16	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8015M					
	8021B/5030 BTEX					
0205301-02	Shredded Soil #2	SOIL	12/19/02 8:50	12/19/02 17:16	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205301
Project: EO 2105
Project Name: Livingston Ridge
Location: Lea Cty.

Lab ID: 0205301-01
Sample ID: Shredded Soil #1

3015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		12/20/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1290	50.0
DRO, >C12-C35	3950	50.0
TOTAL, C6-C35	5.240	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	17%	70	130
1-Chlorooctadecane	28%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004133-02		12/22/02	1	0.025	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	1.74	0.050
Toluene	11.7	0.050
Ethylbenzene	9.01	0.050
p/m-Xylene	19.1	0.050
o-Xylene	9.91	0.050

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	512%	80	120
Bromofluorobenzene	129%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205301
Project: EO 2105
Project Name: Livingston Ridge
Location: Lea Cty.

Lab ID: 0205301-02
Sample ID: Shredded Soil #2

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		12/20/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	1110	50.0
DRO, >C12-C35	4750	50.0
TOTAL, C6-C35	5,860	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	18%	70	130
1-Chlorooctadecane	32%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004133-02		12/22/02	1	0.025	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	0.547	0.050
Toluene	5.77	0.050
Ethylbenzene	5.51	0.050
p/m-Xylene	13.7	0.050
o-Xylene	6.38	0.050

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	280%	80	120
Bromofluorobenzene	131%	80	120

Approved: Jeannie McMurray 12-23-02
Randall K. Tuttle, Lab Director, QA Officer
Coley D. Keene, Org. Tech. Director
Jeannie McMurray, Inorg. Tech. Director
Gandra Diezguibe, Lab Tech.
Lara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS, LTD.

12500 West 430 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205301

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004133-02			<0.025		
Toluene-mg/kg		0004133-02			<0.025		
Ethylbenzene-mg/kg		0004133-02			<0.025		
p/m-Xylene-mg/kg		0004133-02			<0.025		
o-Xylene-mg/kg		0004133-02			<0.025		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004133-03		0.1	0.110	110%	
Toluene-mg/kg		0004133-03		0.1	.111	111%	
Ethylbenzene-mg/kg		0004133-03		0.1	.114	114%	
p/m-Xylene-mg/kg		0004133-03		0.2	.230	115%	
o-Xylene-mg/kg		0004133-03		0.1	.114	114%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004133-04		0.1	0.112	112%	1.8%
Toluene-mg/kg		0004133-04		0.1	.114	114%	2.7%
Ethylbenzene-mg/kg		0004133-04		0.1	.117	117%	2.6%
p/m-Xylene-mg/kg		0004133-04		0.2	.237	118.5%	3%
o-Xylene-mg/kg		0004133-04		0.1	.117	117%	2.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004133-05		0.05	0.049	98%	
Toluene-mg/kg		0004133-05		0.05	.049	98%	
Ethylbenzene-mg/kg		0004133-05		0.05	.049	98%	
p/m-Xylene-mg/kg		0004133-05		0.1	.105	105%	
o-Xylene-mg/kg		0004133-05		0.05	.049	98%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0205301

<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004131-02			<10		
<i>CONTROL</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004131-03		952	947	99.5%	
<i>CONTROL DUP</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004131-04		952	1043	109.6%	9.6%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004131-05		1000	1171	117.1%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0205301

Project: Livingston Ridge

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Shredded Soil #1	0205301-01	SOIL	12/19/2002	12/19/2002
Shredded Soil #2	0205301-02	SOIL	12/19/2002	12/19/2002

Surrogate recoveries are outside the control limits because they were diluted out on TPH; BTEX surrogates out of historical range due to coeluting compounds.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

James McManus
Environmental Lab of Texas, Ltd.

Date: 12-23-02

12000 West 130th and
Company, Inc. 73003

Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 26

Ken Sutton

Project Name:

Twister Ridge

1. *Chlorophyll a* and *Chlorophyll b* (mg/g)

ETG

Project #:

En 2105

[illegible]

2570 W. Maryland

Project Log:

LCN 477

$$V(\mathbf{d}_1, \mathbf{d}_2, \mathbf{d}_3, \mathbf{d}_4, \mathbf{d}_5) = 0$$

116665 nm 88240

PG 11

20 2105

1. 4. 3. 4. 5. 6.

505 397. 4602

Fax No:

505-397 7701

and γ is a positive constant.

Sally Stang

Field Code		Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix		Temperature		Sample Comments	
1. Field Code	2. Field Code				ICE	HNO ₃	H ₂ O	H ₂ SO ₄	H ₂ PO ₄	Other: Specifying	Water	Sludge	Soil	Other: Specifying	Temp. (C)	Temp. (F)	
0105501-01	SARLDDLS SOIL # 1	19 Dec 02	8:45	1	X								X				
02	SARLDDLS SOIL # 2	19 Dec 02	8:50	1	X								X				
Special Instructions: CALL RD W/RESULTS (505) 916-9833																	
Dispatched by		Date	Time	Received by		Date	Time	Received by		Date	Time	Received by		Date	Time	Received by	
[Signature]		12/19/02	12:45	[Signature]		12/19/02	12:45	[Signature]		12/19/02	12:45	[Signature]		12/19/02	12:45	[Signature]	
[Signature]		12/19/02	17:10	[Signature]		12/19/02	17:10	[Signature]		12/19/02	17:10	[Signature]		12/19/02	17:10	[Signature]	

COPY

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Project: Livingston Station
PO#:
Order#: G0305433
Report Date: 01/13/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0305433
Project: EO 2105
Project Name: Livingston Station
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0305433-01	SP 1	SOIL	1/9/03 9:40	1/10/03 8:35	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -0.5 C		
	8015M					
	8021B/5030 BTEX					
0305433-02	SP 2	SOIL	1/9/03 14:00	1/10/03 8:35	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -0.5 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305433
Project: FO 2105
Project Name: Livingston Station
Location: None Given

Lab ID: 0305433-01
Sample ID: SP 1

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		1/10/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	933	10.0
DRO, >C12-C35	3.800	10.0
TOTAL, C6-C35	4.730	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	104%	70	130
1-Chlorooctadecane	146%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004321-02		1/11/03 15:42	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.178	0.025
Toluene	2.60	0.025
Ethylbenzene	3.23	0.025
p/m-Xylene	7.80	0.025
o-Xylene	4.94	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	146%	80	120
Bromofluorobenzene	148%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS LTD.

12600 West 1420 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305433
Project: EO 2105
Project Name: Livingston Station
Location: None Given

Lab ID: 0305433-02
Sample ID: SP 2

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		1/10/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	908	10.0
DRO, >C12-C35	4,520	10.0
TOTAL, C6-C35	5,430	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	103%	70	130
1-Chlorooctadecane	138%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0004321-02		1/11/03 16:24	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.379	0.025
Toluene	4.64	0.025
Ethylbenzene	3.39	0.025
p/m-Xylene	9.94	0.025
o-Xylene	5.04	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	161%	80	120
Bromofluorobenzene	124%	80	120

Approval: Sandra McMurray 01-13-03
 Roland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurray, Inorg. Tech. Director
 Sandra Biezugge, Lab Tech.
 Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0305433

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004323-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004323-03		952	895	94.1%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004323-04		952	901	94.6%	0.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004323-05		1000	891	89.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305433

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004321-02			<0.025		
Toluene-mg/kg		0004321-02			<0.025		
Ethylbenzene-mg/kg		0004321-02			<0.025		
p/m-Xylene-mg/kg		0004321-02			<0.025		
o-Xylene-mg/kg		0004321-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305435-12	0	0.1	0.102	102.0%	
Toluene-mg/kg		0305435-12	0	0.1	0.108	108.0%	
Ethylbenzene-mg/kg		0305435-12	0	0.1	0.113	113.0%	
p/m-Xylene-mg/kg		0305435-12	0	0.2	0.234	117.0%	
o-Xylene-mg/kg		0305435-12	0	0.1	0.110	110.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305435-12	0	0.1	0.102	102.0%	0.0%
Toluene-mg/kg		0305435-12	0	0.1	0.105	105.0%	2.8%
Ethylbenzene-mg/kg		0305435-12	0	0.1	0.113	113.0%	0.0%
p/m-Xylene-mg/kg		0305435-12	0	0.2	0.227	113.5%	3.0%
o-Xylene-mg/kg		0305435-12	0	0.1	0.111	111.0%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004321-05		0.1	0.101	101.0%	
Toluene-mg/kg		0004321-05		0.1	0.105	105.0%	
Ethylbenzene-mg/kg		0004321-05		0.1	0.106	106.0%	
p/m-Xylene-mg/kg		0004321-05		0.2	0.227	113.5%	
o-Xylene-mg/kg		0004321-05		0.1	0.107	107.0%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305433

Project: Livingston Station

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SP 1	0305433-01	SOIL	01/09/2003	01/10/2003
SP 2	0305433-02	SOIL	01/09/2003	01/10/2003

Surrogate recoveries on the 8015M TPH are outside control limits due to matrix interference from coeluting compounds. (0305433-01,02)

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference from coeluting compounds. (0305433-01,02)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: James M. Murrey
Environmental Lab of Texas 1, Ltd.

Date: 01-13-03

For Use On **EOTT ENERGY CORP.** Projects Only
 4600 West Wall
 Midland, TX 79703
 Tel (915) 522-1139
 Fax (915) 520-4310

 2540 West Marland
 Hobbs, NM 88242
 Tel (505) 397-4882
 Fax (505) 397-4701

 EOTT ENERGY CORP.
 East Business 20
 TX 79702
 (915) 687-3400
 (915) 582-2781

 5905
 Midland,
 Tex
 Fax

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
(Circle or Specify Method No.)

Project Manager

KEN DUTTON

EOTT Leak Number:

Project Name

LINDSEY STATION

ETGI Project Number:

ED 2105

Project Location

Sampler Signature

Mando Campo

TAB #
(Tab Use Only)

FIELD CODE

CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

MATRIX

PRESERVATION
METHOD

SAMPLING

DATE

TIME

16 TEX 50219/5030

TPH 412.1/TX 1005

TPH 8015M GROUNDRO

PAH 4270C (8100 New Mexico only)

Total Metals As As Ba Ca Cd Cr Pb Se Hg 4010B/470

TOC/P Metals As As Ba Ca Cd Cr Pb Se Hg

TOC/P Volatiles

TOC/P Semi Volatiles

Volatiles 8260H

Semi Volatiles 4270C

TOC 1601

EPA Method 8210/8211

Relinquished by:

Date:

Time:

Mando Campo

7-9-03

1528

Received by:

Date:

Time:

J. Day

2/9/03

15:28

Relinquished by:

Date:

Time:

J. Day

2/10/03

Received at Lab by:

Date:

Time:

Dawn Caudill

1/10/03

0838

REMARKS:

 RUSH TURN
 CALL KEN DUTTON w/VERBAL
 SOS 397-4882

 -0.5 C
 402 GASE

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Project: Livingston Ridge Station

PO#:

Order#: G0305493

Report Date: 01/20/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0305493
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea Co., NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0305493-01	Stock Pile One	SOIL	1/16/03 16:00	1/17/03 13:40	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0305493-02	Stock Pile Two	SOIL	1/16/03 16:15	1/17/03 13:40	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0305493-03	Stock Pile Three	SOIL	1/16/03 16:25	1/17/03 13:40	4 oz Glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305493
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea Co., NM

Lab ID: 0305493-01
Sample ID: Stock Pile One

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		1/17/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<50.0	50.0
DRO, >C12-C35	2140	50.0
TOTAL, C6-C35	2140	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	19%	70	130
1-Chlorooctadecane	20%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0004393-02		1/20/03 9:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.030	0.025
Ethylbenzene	0.075	0.025
p/m-Xylene	0.216	0.025
o-Xylene	0.111	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	103%	80	120

DL = Diluted out NA = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305493
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea Co., NM

Lab ID: 0305493-02
Sample ID: Stock Pile Two

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		1/17/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	165	50.0
DRO, >C12-C35	3170	50.0
TOTAL, C6-C35	3335	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	21%	70	130
1-Chlorooctadecane	25%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004393-02		1/20/03 9:52	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.104	0.025
Ethylbenzene	0.180	0.025
p/m-Xylene	0.511	0.025
o-Xylene	0.667	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	104%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305493
Project: EO 2105
Project Name: Livingston Ridge Station
Location: Lea Co., NM

Lab ID: 0305493-03
Sample ID: Stock Pile Three

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		1/17/03	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	308	50.0
DRO, >C12-C35	3260	50.0
TOTAL, C6-C35	3568	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	25%	70	130
1-Chlorooctadecane	27%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004393-02		1/20/03 10:13	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	0.027	0.025
Toluene	0.130	0.025
Ethylbenzene	0.281	0.025
p/m-Xylene	0.746	0.025
o-Xylene	0.786	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	109%	80	120
Bromofluorobenzene	111%	80	120

Approval: *Roland K. Tuttle* 1-20-03
 Roland K. Tuttle, Lab Director, QA Officer Date
 Deley D. Kerne, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Tara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0305493

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004382-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004382-03		1000	793	79.3%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004382-04		1000	791	79.1%	0.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004382-05		1000	795	79.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305493

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004393-02			<0.025		
Toluene-mg/kg		0004393-02			<0.025		
Ethylbenzene-mg/kg		0004393-02			<0.025		
p/m-Xylene-mg/kg		0004393-02			<0.025		
o-Xylene-mg/kg		0004393-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305466-01	0	0.1	0.086	86.6%	
Toluene-mg/kg		0305466-01	0	0.1	0.089	89.6%	
Ethylbenzene-mg/kg		0305466-01	0	0.1	0.094	94.6%	
p/m-Xylene-mg/kg		0305466-01	0	0.2	0.202	101.6%	
o-Xylene-mg/kg		0305466-01	0	0.1	0.093	93.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305466-01	0	0.1	0.090	90.6%	4.5%
Toluene-mg/kg		0305466-01	0	0.1	0.092	92.6%	3.3%
Ethylbenzene-mg/kg		0305466-01	0	0.1	0.097	97.6%	3.1%
p/m-Xylene-mg/kg		0305466-01	0	0.2	0.206	103.6%	2.6%
o-Xylene-mg/kg		0305466-01	0	0.1	0.094	94.6%	1.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004393-05		0.1	0.109	109.6%	
Toluene-mg/kg		0004393-05		0.1	0.110	110.6%	
Ethylbenzene-mg/kg		0004393-05		0.1	0.109	109.6%	
p/m-Xylene-mg/kg		0004393-05		0.2	0.228	114.6%	
o-Xylene-mg/kg		0004393-05		0.1	0.110	110.6%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0305493

Project: Livingston Ridge Station

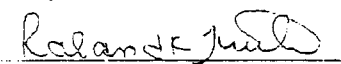
The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Stock Pile One	0305493-01	SOIL	01/16/2003	01/17/2003
Stock Pile Two	0305493-02	SOIL	01/16/2003	01/17/2003
Stock Pile Three	0305493-03	SOIL	01/16/2003	01/17/2003

Surrogate recoveries on the 8015M TPH are outside the control limits because they were diluted out.
(0305493-01,02,03)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:


Environmental Lab of Texas I, Ltd.

Date:

1-20-03

Environmental Lab of Texas, Inc.

12600 West 120 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

COC: 61φ

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON

Project Name: LIVINGSTON STAGE STATION

Company Name: ETGI

Project #: EO 2105

Company Address: 2540 W MARLAND

Project Loc: LEA COUNTY, NM

City/State/Zip: HOBBS, NM 88240

PO #:

Telephone No: (505) 397-4882

Fax No: (505) 397-4701

Sampler Signature: [Signature]

LAB # (Lab Use Only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix			TDS/CL/SAR/EC	PH 1-12	TPH 1X 1005/1005	TPH 8015M (BOD/DOC)	ANALYZE FOR:	TCLP TOTAL
					ICE	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge						
0305493		20φ3																	
01	STOCK PILE ONE	16 JAN	1600	1	X														
02	STOCK PILE TWO	16 JAN	1615	1	X														
03	STOCK PILE THREE	16 JAN	1625	1	X														

Special Instructions:

PLEASE CALL KD W/VERBAL RESULTS

Relinquished by:	Date	Time	Received by:	Date	Time
[Signature]	17 JAN 03	0850	[Signature]	11/17/03	8:50
Relinquished by:	Date	Time	Received by: ELDT	Date	Time
[Signature]	11/17/03	1318	[Signature]	11/17/03	1340
[Signature]	11/17/03	1320	[Signature]	11/17/03	1348

Sample Containers Intact? ☒ Y ☐ N
Temperature Upon Receipt
Laboratory Comments:

1.5C
402 G/L