Highlander Environmental Corp.

Midland, Texas

August 27, 2007

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Assessment and Closure Request for the Spill at the Jalmat Yates, Well #29, Unit Letter L, Section 18, Township 25 South, Range 37 East, Lea County, New Mexico, Operated by COG Operating LLC, 1RP 1380.

API# 30025 11651 0000

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by COG Operating LLC (COG) to assess and to remediate the soil impact from a spill that occurred at the Jalmat Yates Well #29 located in Unit Letter L, Section 18, Township 25 South, Range 37 East, Lea County, New Mexico. The site location is shown on Figure 1.

Background

The spill was discovered on June 2, 2007, from a leak on a flowline located near the well pad location. Approximately 1 barrel of oil and 2 barrels of water were released from the flowline and no fluids were recovered. The release impacted an area west and south of the well pad location. The initial Form C-141 is included in Appendix C.

Groundwater and Regulatory

The spill area is located in Section 18, Township 25 South, Range 37 East. The State of New Mexico Well Reports did not show any water wells in Section 18. However, there were water wells shown in Sections 19 and 20, Township 25 South, Range 37 East with an average groundwater depth of approximately 34' to 44' below surface.

Published data, from the Geology and Groundwater Conditions in Southern New Mexico, showed wells in Section 15 and 23, Township 25 South, Range 36 East with reported depths of 120' and 53.7', respectively. In Sections 17, 19 and 20, Township 25 South, Range 37 East, water wells showed average groundwater depths of approximately 62' to 65' below surface. In addition, the USGS data base reported a depth to water at 51'in the southeast quarter of Section 18, Township 25 South, Range 37 East. A monitor well, located in the western edge of Section 18, reportedly had a water level of approximately 63.0' in 2004. Based on the relative elevation of the Site and surrounding

RP#156

wells, the groundwater appears to be greater than 50.0' below surface. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix B.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 1,000 mg/kg.

Assessment and Corrective Action

On June 7, 2007, Highlander personnel inspected the spill area. During the inspection, the impacted area west and south of the well pad had been excavated to a depth of approximately 6" below surface. The excavated soils were transported to Sundance Services, Inc., located in Eunice, New Mexico for proper disposal. A total of three (3) auger holes were installed in the spill area. The auger hole locations are shown on Figure 2.

The soil samples collected were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO, benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B and chloride by EPA method 300.0. All samples were collected and preserved in laboratory prepared sample containers, shipped under proper chain-of-custody control and analyzed within the standard holding times. The sample results are shown in Table 1. The analytical reports and chain of custody are shown in Appendix B.

Referring to Table 1, the sample from AH-2 (0-1') exceeded the RRAL for TPH with a concentration of 5,290 mg/kg. The remaining samples at 0-1' were below the RRAL for TPH and BTEX. The deeper sample at AH-2 (1-1.5') was below the TPH RRAL. The chloride concentrations ranged from 92.8 mg/kg (AH-3, 1-1.5') to 653 mg/kg (AH-2, 0-1').

On July 14, 2007, Highlander supervised the excavation to remove the impacted soil above the RRAL. The area of AH-2 was excavated and an additional 6" to 1.0' of soil was removed. The excavated area is shown Figure 3. The excavated soils were then transported to proper disposal. Once excavated, one confirmation sample CS (0-1') was collected from the excavated area. The TPH concentration was <50.0 mg/kg.

Conclusion

The spill from the release caused a shallow hydrocarbon impact to the subsurface soils, which were excavated to below NMOCD RRAL. The chloride concentrations do not appear to be an imminent threat to groundwater. Based on the results and remedial activities performed, COG request closure for the Site. The final Form C-141 is included in Appendix C.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Highlander Environmental Corp.

Ike Tavarez, P.G.
Project Manager/Senior Geologist

cc: COG – Boyd Chesser

SITE INFORMATION

RP - 1380 Report Type: CLOSURE REPORT

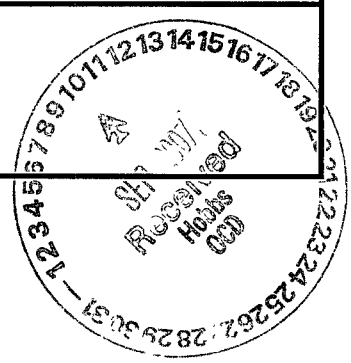
General Site Information:	
Site:	**Jalmat Yates Unit #29**
Company:	**COG Operating LLC**
Well Location:	**Section 18, T25S, R37E**
Unit Letter:	**Unit L**
Lease Number:	**301048**
County:	**Lea**
Spill GPS:	N32.12944° W103.20727°
Surface Owner:	Clay Osborne
Mineral Owner:	Unknown
Directions:	From Jal, New Mexico, intersection of Hwy 18 and Hwy 128, go 1.1 miles (west) on
	128, turn right (north) into lease road, go north 0.5 miles and turn right (east) and go
	0.1 mile to well location.

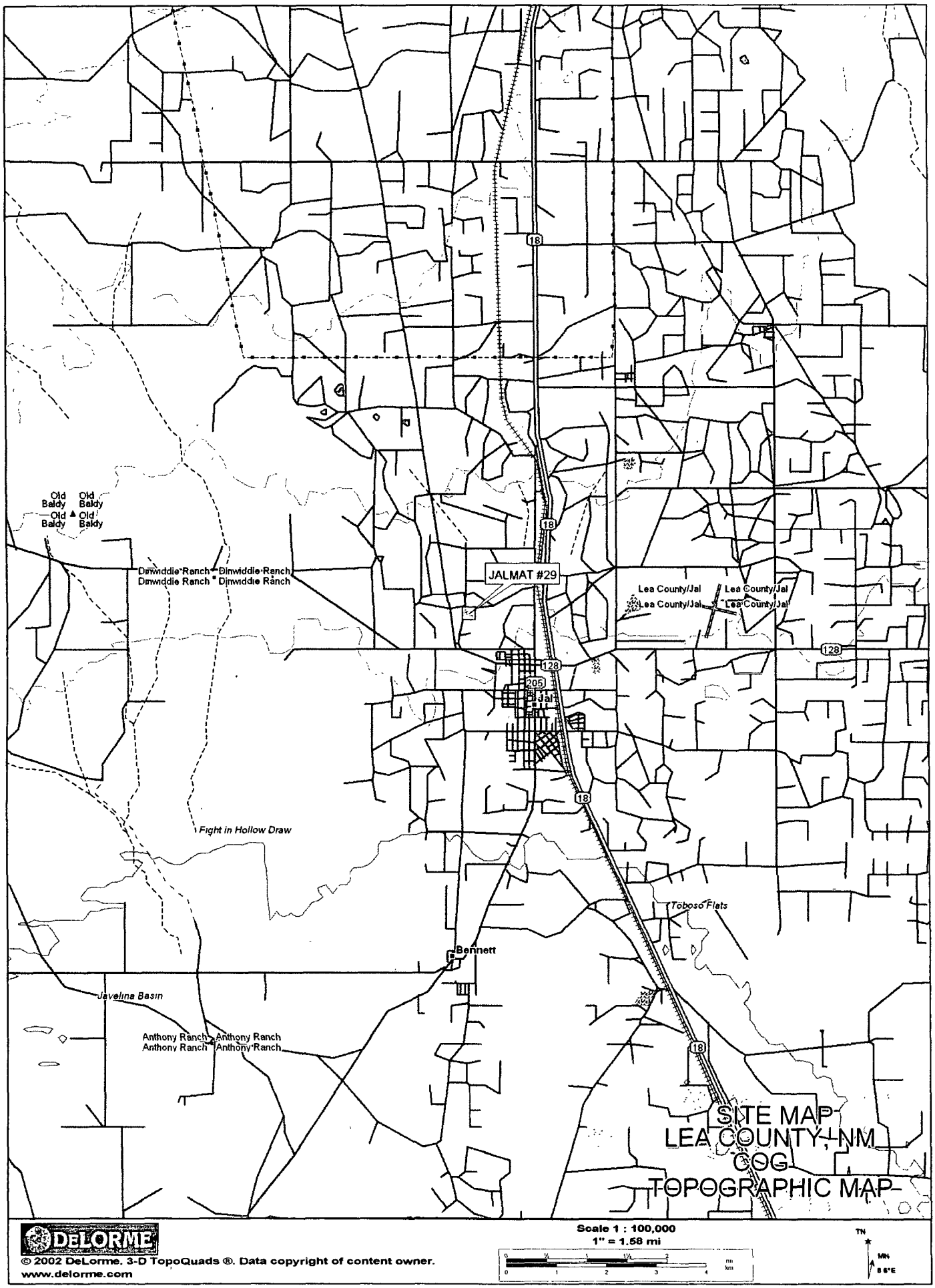
Release Data:	
Date Released:	6/2/2007
Type Release:	Oil and water
Source of Contamination:	Flow line leak
Fluid Released:	1 Barrel of Oil and 2 Barrels of Water
Fluids Recovered:	None

Official Communication:			
Name:	Kanicia Carrillo		Ike Tavarez
Company:	COG Operating, LLC		Highlander Environmental Corp.
Address:	550 W. Texas, Ste 1300		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79701-7340		Midland, Texas
Phone number:	(432) 683-7443		(432) 682- 4559
Fax:	(432) 683-7441		
Email:	KCarrillo@conchoresources.com		itavarez@hec-enviro.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	
50-99 ft	**10**	
>100 ft.	0	
WellHead Protection:	***Ranking Score***	***Site Data***
Water Source <1,000 ft., Private <200 ft.	*20*	*None*
Water Source >1,000 ft., Private >200 ft.	***0***	
Surface Body of Water:	***Ranking Score***	***Site Data***
<200 ft.	*20*	*None*
200 ft - 1,000 ft.	10	*None*
>1,000 ft.	**0**	
Total Ranking Score:	**10**	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	**50**	**1,000**




JALMAT #29
Old Baldy
Old Baldy
Old Baldy
Old Baldy
Dinwiddie Ranch
Dinwiddie Ranch
Dinwiddie Ranch
Dinwiddie Ranch
Lea County/Jal
Lea County/Jal
Lea County/Jal
Lea County/Jal
Jal
Fight in Hollow Draw
Toboso Flats
Bennett
Javelina Basin
Anthony Ranch
Anthony Ranch
Anthony Ranch
Anthony Ranch
18
128
205
SITE MAP
LEA COUNTY, NM
COG
TOPOGRAPHIC MAP
DeLORME
Scale 1 : 100,000
1" = 1.58 mi
© 2002 DeLorme. 3-D TopoQuads ®. Data copyright of content owner.
www.delorme.com

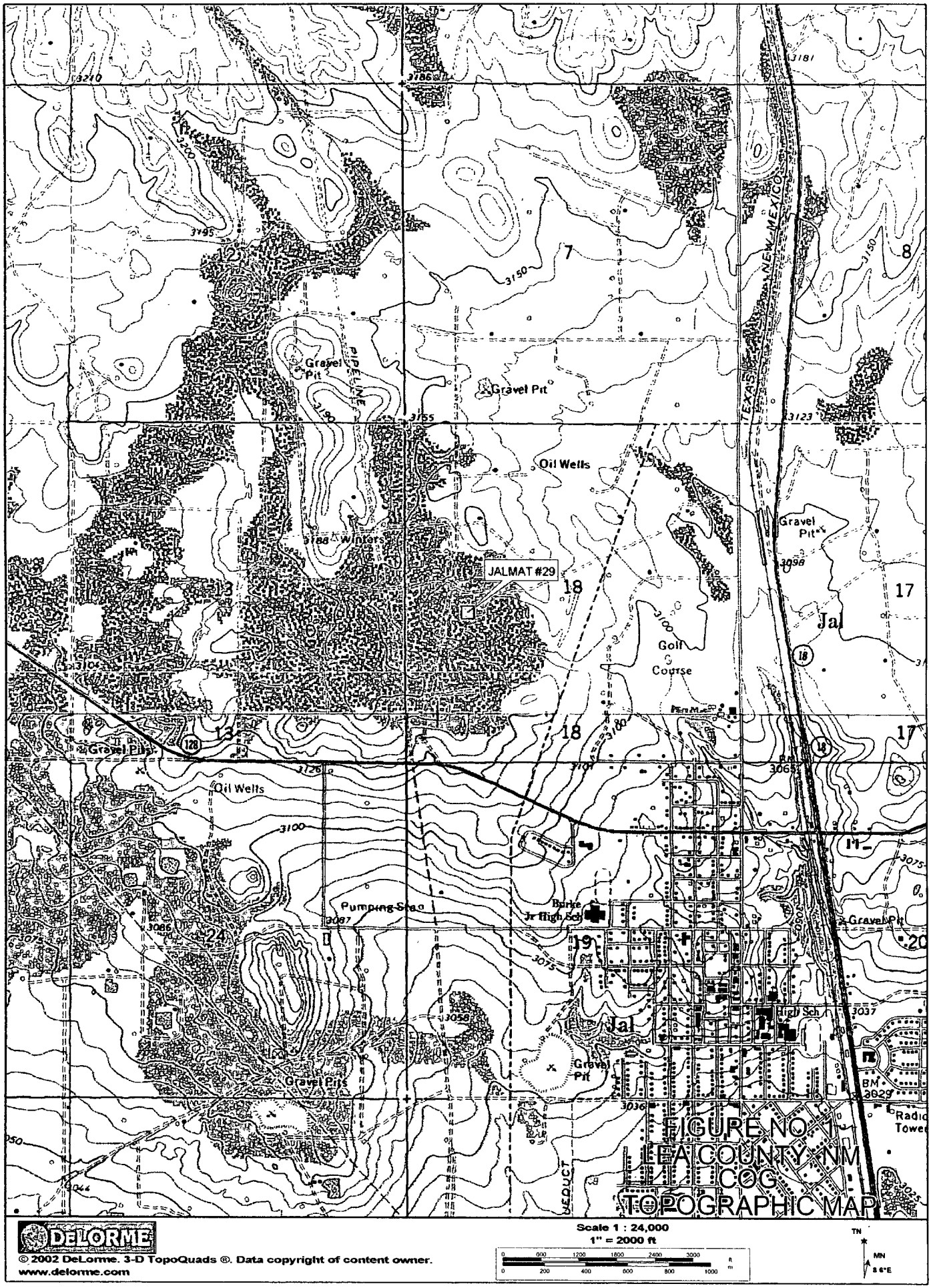
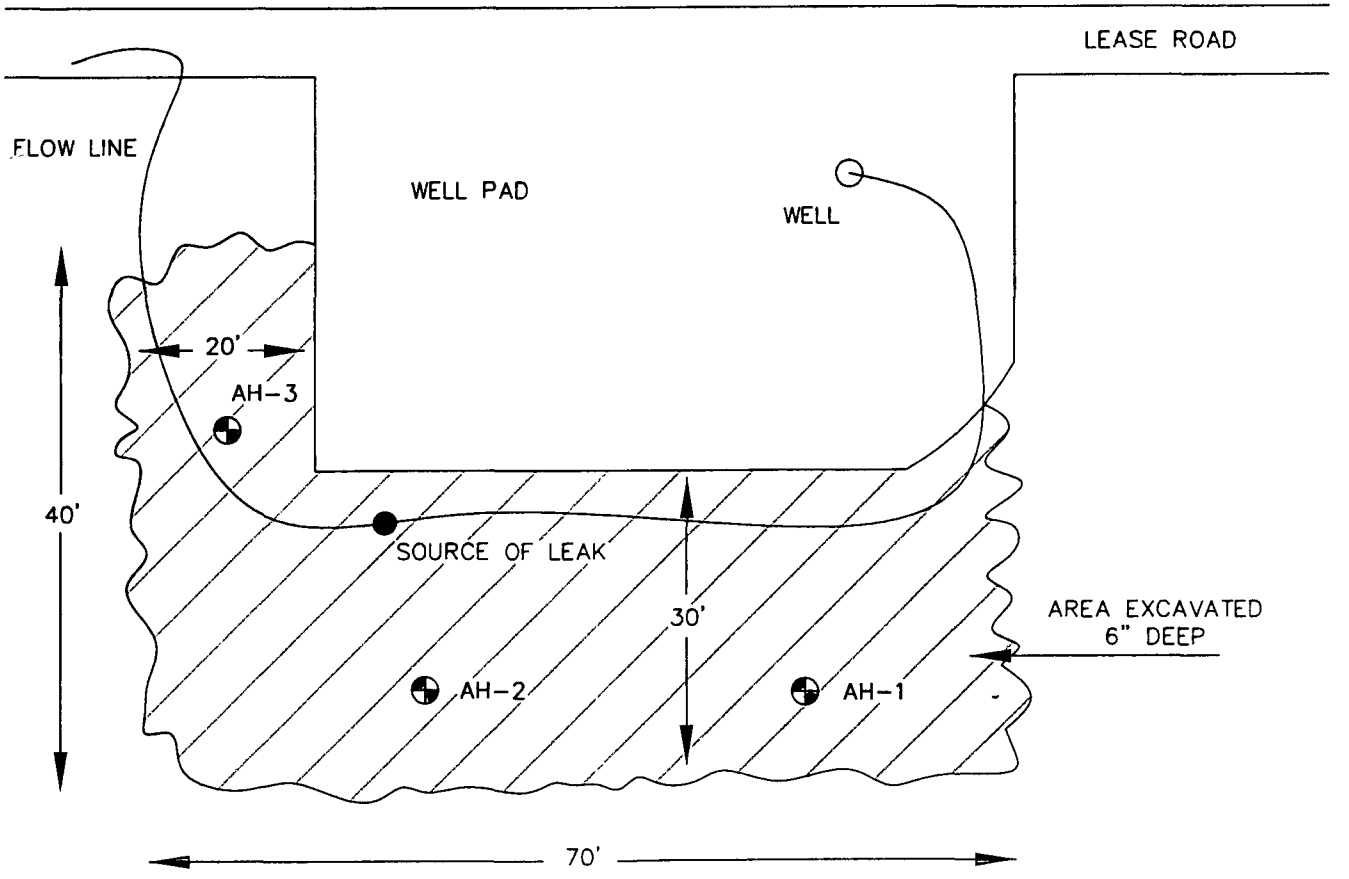


FIGURE NO. 1
LEA COUNTY NM
COG
TOPOGRAPHIC MAP

NORTH



SPILL AREA

AUGER HOLE

NOT TO SCALE

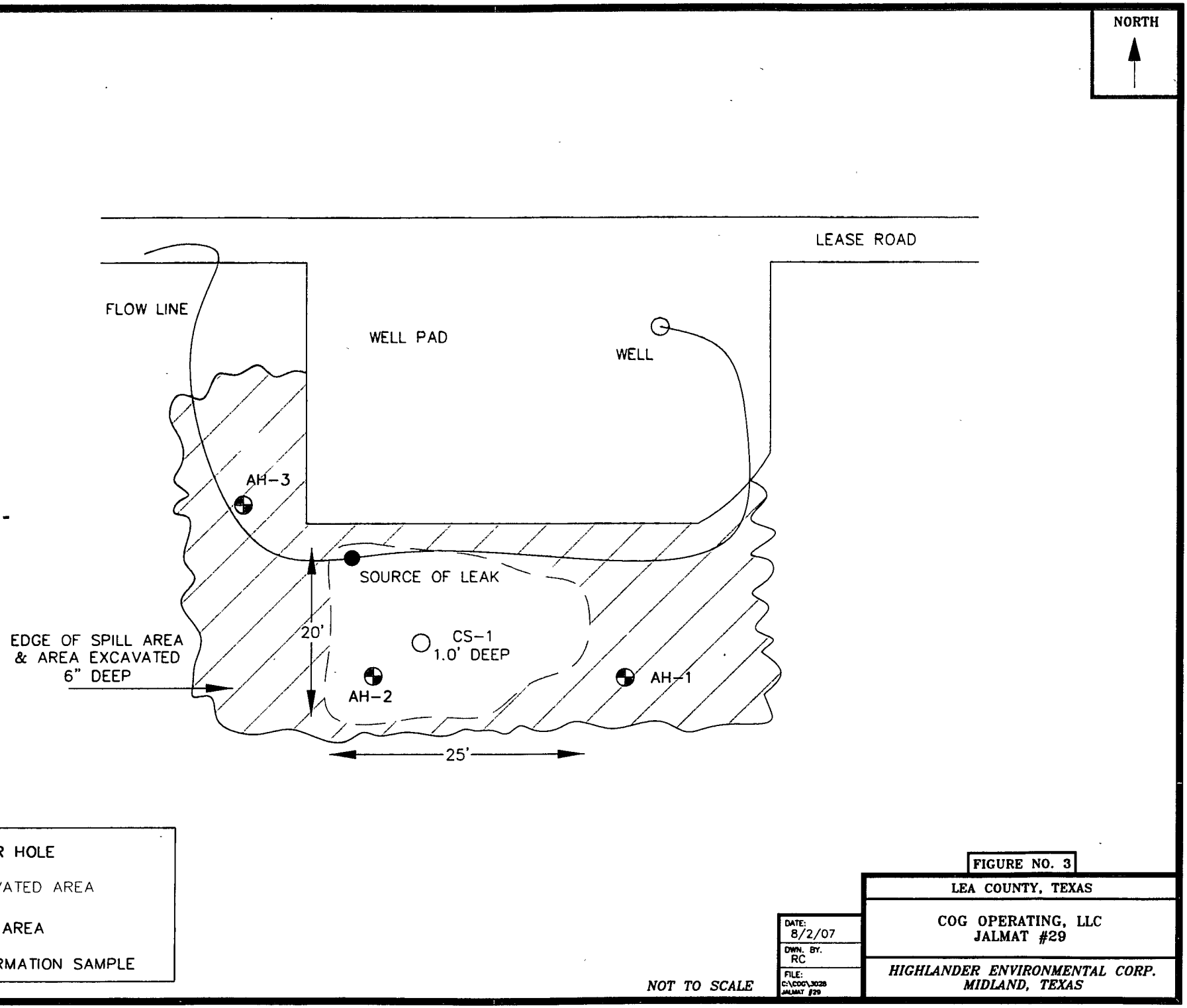
FIGURE NO. 2

LEA COUNTY, TEXAS

COG OPERATING, LLC
JALMAT #29

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 8/2/07
DWN. BY. RC
FILE: C:\COG\3029 JALMAT #29



NOT TO SCALE

FIGURE NO. 3

LEA COUNTY, TEXAS

COG OPERATING, LLC
JALMAT #29

DATE: 8/2/07
DWN. BY. RC
FILE: C:\COG\3028 JALMAT #29

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

Table 1
COG Operating
Jalmat Yates Unit #29 Well
Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO	Total					
Confirmation Sampling - Area excavated 6" prior to sampling										
AH-1	6/7/2007	0-1.0'	<50.0	<1.00	<50.0	<0.0100	<0.0100	0.0357	0.180	279
AH-1	6/7/2007	1'-1.5'	-	-	-	-	-	-	-	105
AH-2	6/7/2007	0-1.0'	3,360	1,930	**5,290**	0.178	5.20	9.77	26.6	653
AH-2	6/7/2007	1'-1.5'	<50.0	5.44	5.44	-	-	-	-	206
AH-2	6/7/2007	2'-2.5'	-	-	-	-	-	-	-	472
AH-3	6/7/2007	0-1.0'	85.1	<1.00	85.1	<0.0100	<0.0100	0.0889	0.275	128
AH-3	6/7/2007	1'-1.5'	-	-	-	-	-	-	-	92.8

(-) Not Analyzed

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO	Total					
Confirmation Sampling - Area of AH-2, excavation additional 6" to total depth of 1.0' to 1.5' BEB										
CS-1 (0-1') BEB 1.0'	7/14/2007	0-1.0'	<50.0	<1.00	<50.0	<0.0100	<0.0100	0.0357	0.180	279

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date. June 19, 2007

Work Order: 7060838

Project Location: Lea County, NM
Project Name: COG-Jalmet #29
Project Number: 3028

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
127046	AH-1 (0-1')	soil	2007-06-07	00:00	2007-06-08
127047	AH-1 (1-1.5')	soil	2007-06-07	00:00	2007-06-08
127048	AH-2 (0-1')	soil	2007-06-07	00:00	2007-06-08
127049	AH-2 (1-1.5')	soil	2007-06-07	00:00	2007-06-08
127050	AH-2 (2-2.5')	soil	2007-06-07	00:00	2007-06-08
127053	AH-3 (0-1')	soil	2007-06-07	00:00	2007-06-08
127054	AH-3 (1-1.5')	soil	2007-06-07	00:00	2007-06-08

	BTEX				MTBE	TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
127046 - AH-1 (0-1')	<0.0100	<0.0100	**0.0357**	**0.180**		<50.0	<1.00
127048 - AH-2 (0-1')	**0.178**	**5.20**	**9.77**	**26.6**		**3360**	**1930**
127049 - AH-2 (1-1.5')						<50.0	**5.44**
127053 - AH-3 (0-1')	<0.0100	<0.0100	**0.0889**	**0.275**		**85.1**	<1.00

Sample: 127046 - AH-1 (0-1')

Param	Flag	Result	Units	RL
Chloride		**279**	mg/Kg	2.00

Sample: 127047 - AH-1 (1-1.5')

Param	Flag	Result	Units	RL
Chloride		**105**	mg/Kg	2.00

Sample: 127048 - AH-2 (0-1')

Param	Flag	Result	Units	RL
Chloride		**653**	mg/Kg	2.00

Sample: 127049 - AH-2 (1-1.5')

Param	Flag	Result	Units	RL
Chloride		**206**	mg/Kg	2.00

Sample: 127050 - AH-2 (2-2.5')

Param	Flag	Result	Units	RL
Chloride		**472**	mg/Kg	2.00

Sample: 127053 - AH-3 (0-1')

Param	Flag	Result	Units	RL
Chloride		**128**	mg/Kg	2.00

Sample: 127054 - AH-3 (1-1.5')

Param	Flag	Result	Units	RL
Chloride		**92.8**	mg/Kg	2.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: June 19, 2007

Work Order: 7060838

Project Location: Lea County, NM
Project Name: COG-Jalmet #29
Project Number: 3028

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
127046	AH-1 (0-1')	soil	2007-06-07	00:00	2007-06-08
127047	AH-1 (1-1.5')	soil	2007-06-07	00:00	2007-06-08
127048	AH-2 (0-1')	soil	2007-06-07	00:00	2007-06-08
127049	AH-2 (1-1.5')	soil	2007-06-07	00:00	2007-06-08
127050	AH-2 (2-2.5')	soil	2007-06-07	00:00	2007-06-08
127053	AH-3 (0-1')	soil	2007-06-07	00:00	2007-06-08
127054	AH-3 (1-1.5')	soil	2007-06-07	00:00	2007-06-08

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank

Case Narrative

Samples for project COG-Jalmet #29 were received by TraceAnalysis, Inc. on 2007-06-08 and assigned to work order 7060838. Samples for work order 7060838 were received intact at a temperature of 4 deg C.

Samples were analyzed for the following tests using their respective methods

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
TPH DRO	Mod 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7060838 since the sample was chosen at random Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 127046 - AH-1 (0-1')

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38108	Date Analyzed:	2007-06-12	Analyzed By:	JW
Prep Batch:	33027	Sample Preparation:	2007-06-12	Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		**0.0357**	mg/Kg	1	0.0100
Xylene		**0.180**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.830	mg/Kg	1	1.00	83	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	51.1 - 119.1

Sample: 127046 - AH-1 (0-1')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**279**	mg/Kg	25	2.00

Sample: 127046 - AH-1 (0-1')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38088	Date Analyzed:	2007-06-11	Analyzed By:	AG
Prep Batch:	32963	Sample Preparation:	2007-06-11	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		129	mg/Kg	1	150	86	32.9 - 167

Sample: 127046 - AH-1 (0-1')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38280	Date Analyzed:	2007-06-18	Analyzed By:	KB
Prep Batch:	33143	Sample Preparation:	2007-06-18	Prepared By:	KB

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.884	mg/Kg	1	1.00	88	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.951	mg/Kg	1	1.00	95	10 - 227

Sample: 127047 - AH-1 (1-1.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**105**		mg/Kg	25	2.00

Sample: 127048 - AH-2 (0-1')

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38108	Date Analyzed:	2007-06-12	Analyzed By:	JW
Prep Batch:	33027	Sample Preparation:	2007-06-12	Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.178**		mg/Kg	1	0.0100
Toluene	[1]	**5.20**		mg/Kg	1	0.0100
Ethylbenzene	[2]	**9.77**		mg/Kg	1	0.0100
Xylene	[3]	**26.6**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.647	mg/Kg	1	1.00	65	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	51.1 - 119.1

Sample: 127048 - AH-2 (0-1')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**653**		mg/Kg	25	2.00

[1]Estimated concentration value greater than standard range.
[2]Estimated concentration value greater than standard range.
[3]Estimated concentration value greater than standard range.

Sample: 127048 - AH-2 (0-1')

Analysis:	TPH DRO	Analytical Method:	Mod 8015B	Prep Method:	N/A
QC Batch:	38088	Date Analyzed:	2007-06-11	Analyzed By:	AG
Prep Batch:	32963	Sample Preparation:	2007-06-11	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**3360**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		203	mg/Kg	1	150	135	32.9 - 167

Sample: 127048 - AH-2 (0-1')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38280	Date Analyzed:	2007-06-18	Analyzed By:	KB
Prep Batch:	33143	Sample Preparation:	2007-06-18	Prepared By:	KB

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**1930**		mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.422	mg/Kg	20	1.00	42	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.49	mg/Kg	20	1.00	149	10 - 227

Sample: 127049 - AH-2 (1-1.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	Sample Preparation		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**206**		mg/Kg	25	2.00

Sample: 127049 - AH-2 (1-1.5')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38107	Date Analyzed:	2007-06-12	Analyzed By:	AG
Prep Batch:	32993	Sample Preparation:	2007-06-12	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		123	mg/Kg	1	150	82	61.7 - 143.2

Sample: 127049 - AH-2 (1-1.5')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38280	Date Analyzed:	2007-06-18	Analyzed By:	KB
Prep Batch:	33143	Sample Preparation:	2007-06-18	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.44**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.26	mg/Kg	1	1.00	126	10 - 227

Sample: 127050 - AH-2 (2-2.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**472**	mg/Kg	25	2.00

Sample: 127053 - AH-3 (0-1')

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38108	Date Analyzed:	2007-06-12	Analyzed By:	JW
Prep Batch:	33027	Sample Preparation:	2007-06-12	Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		**0.0889**	mg/Kg	1	0.0100
Xylene		**0.275**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.819	mg/Kg	1	1.00	82	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	51.1 - 119.1

Sample: 127053 - AH-3 (0-1')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38070	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch	32965	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**128**		mg/Kg	25	2.00

Sample: 127053 - AH-3 (0-1')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method.	N/A
QC Batch:	38088	Date Analyzed:	2007-06-11	Analyzed By:	AG
Prep Batch:	32963	Sample Preparation:	2007-06-11	Prepared By:	AG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**85.1**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		142	mg/Kg	1	150	95	32.9 - 167

Sample: 127053 - AH-3 (0-1')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38280	Date Analyzed:	2007-06-18	Analyzed By:	KB
Prep Batch:	33143	Sample Preparation:	2007-06-18	Prepared By	KB

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1 00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.994	mg/Kg	1	1.00	99	10 - 227

Sample: 127054 - AH-3 (1-1.5')

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38070	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32965	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**92.8**		mg/Kg	25	2.00

Method Blank (1) QC Batch: 38069

QC Batch:	38069	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32964	QC Preparation:	2007-06-12	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 38070

QC Batch:	38070	Date Analyzed:	2007-06-12	Analyzed By:	AR
Prep Batch:	32965	QC Preparation:	2007-06-12	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 38088

QC Batch:	38088	Date Analyzed:	2007-06-11	Analyzed By:	AG
Prep Batch:	32963	QC Preparation:	2007-06-11	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		172	mg/Kg	1	150	115	44.7 - 133.6

Method Blank (1) QC Batch: 38107

QC Batch:	38107	Date Analyzed:	2007-06-12	Analyzed By	AG
Prep Batch:	32993	QC Preparation:	2007-06-12	Prepared By:	AG

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		114	mg/Kg	1	150	76	61.7 - 143.2

Method Blank (1) QC Batch: 38108

QC Batch: 38108 | Date Analyzed: 2007-06-12 | Analyzed By: JW
Prep Batch: 33027 | QC Preparation: 2007-06-12 | Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.941	mg/Kg	1	1.00	94	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	1	1.00	94	53.9 - 125.1

Method Blank (1) QC Batch: 38280

QC Batch: 38280 | Date Analyzed: 2007-06-18 | Analyzed By: KB
Prep Batch: 33143 | QC Preparation: 2007-06-18 | Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	1	1.00	86	51.9 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 38069 | Date Analyzed: 2007-06-12 | Analyzed By: AR
Prep Batch: 32964 | QC Preparation: 2007-06-12 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limit
Chloride	97.7	mg/Kg	1	100	<0.500	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	98.7	mg/Kg	1	100	<0.500	99	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38070 | Date Analyzed: 2007-06-12 | Analyzed By: AR
Prep Batch: 32965 | QC Preparation: 2007-06-12 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
Chloride	97.2	mg/Kg	1	100	<0.500	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Param	LCSD Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
Chloride	98.3	mg/Kg	1	100	<0.500	98	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 38088 | Date Analyzed: 2007-06-11 | Analyzed By: AG
Prep Batch: 32963 | QC Preparation: 2007-06-11 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	270	mg/Kg	1	250	<14.6	108	47.5 - 144.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	235	mg/Kg	1	250	<14.6	94	47.5 - 144.1	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	133	130	mg/Kg	1	150	89	87	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 38107 | Date Analyzed: 2007-06-12 | Analyzed By: AG
Prep Batch: 32993 | QC Preparation 2007-06-12 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	196	mg/Kg	1	250	<13 4	78	62.5 - 135 4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
DRO	227	mg/Kg	1	250	<13.4	91	62.5 - 135.4	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	121	107	mg/Kg	1	150	81	71	66.6 - 140.9

Laboratory Control Spike (LCS-1)

QC Batch: 38108 | Date Analyzed: 2007-06-12 | Analyzed By JW
Prep Batch: 33027 | QC Preparation 2007-06-12 | Prepared By JW

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
Benzene	0.994	mg/Kg	1	1.00	<0.00110	99	68.6 - 123.4
Toluene	1.01	mg/Kg	1	1.00	<0.00150	101	74.6 - 119.3
Ethylbenzene	0.979	mg/Kg	1	1.00	<0.00160	98	72.3 - 126.2
Xylene	2.95	mg/Kg	1	3.00	<0.00410	98	76.5 - 121.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Param	LCSD Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.926	mg/Kg	1	1.00	<0.00110	93	68.6 - 123.4	7	20
Toluene	0.944	mg/Kg	1	1.00	<0.00150	94	74.6 - 119.3	7	20
Ethylbenzene	0.913	mg/Kg	1	1.00	<0.00160	91	72.3 - 126.2	7	20
Xylene	2.75	mg/Kg	1	3.00	<0.00410	92	76.5 - 121.6	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.857	0.862	mg/Kg	1	1.00	86	86	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.947	0.942	mg/Kg	1	1.00	95	94	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 38280 | Date Analyzed: 2007-06-18 | Analyzed By: KB
Prep Batch: 33143 | QC Preparation: 2007-06-18 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.09	mg/Kg	1	10.0	<0.459	91	79.6 - 113

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.87	mg/Kg	1	10.0	<0.459	99	79.6 - 113	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.938	1.02	mg/Kg	1	1.00	94	102	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.944	0.948	mg/Kg	1	1.00	94	95	78.1 - 118

Matrix Spike (MS-1) Spiked Sample: 127050

QC Batch: 38069 | Date Analyzed: 2007-06-12 | Analyzed By: AR
Prep Batch: 32964 | QC Preparation: 2007-06-12 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
Chloride	3000	mg/Kg	25	2500	472.345	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	3030	mg/Kg	25	2500	472.345	102	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 127054

QC Batch: 38070 | Date Analyzed: 2007-06-12 | Analyzed By: AR
Prep Batch: 32965 | QC Preparation: 2007-06-12 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	2500	mg/Kg	25	2500	92.851	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	2530	mg/Kg	25	2500	92.851	97	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 127018

QC Batch: 38088 | Date Analyzed: 2007-06-11 | Analyzed By: AG
Prep Batch: 32963 | QC Preparation: 2007-06-11 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	288	mg/Kg	1	250	<14.6	115	11.7 - 152.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [10]	497	mg/Kg	1	250	<14.6	199	11.7 - 152.3	53	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane [11]	142	261	mg/Kg	1	150	95	174	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 127049

QC Batch: 38107 | Date Analyzed: 2007-06-12 | Analyzed By: AG
Prep Batch: 32993 | QC Preparation: 2007-06-12 | Prepared By: AG

[10] Matrix spike recovery out of control limits due to peak interference Use LCS/LCSD to demonstrate analysis is under control
[11] High surrogate recovery due to peak interference

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	227	mg/Kg	1	250	<13.4	91	29.7 - 168.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
DRO	222	mg/Kg	1	250	<13.4	89	29.7 - 168.6	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil	Spike Amount	MS Rec.	MSD Rec.	Rec Limit
n-Triacontane	134	131	mg/Kg	1	150	89	87	43.4 - 193.9

Matrix Spike (MS-1) Spiked Sample: 127017

QC Batch: 38108 | Date Analyzed: 2007-06-12 | Analyzed By: JW
Prep Batch: 33027 | QC Preparation: 2007-06-12 | Prepared By: JW

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
Benzene	1.05	mg/Kg	1	1.00	<0.00110	105	64.4 - 115.7
Toluene	1.08	mg/Kg	1	1.00	<0.00150	108	57.8 - 124.4
Ethylbenzene	1.06	mg/Kg	1	1.00	<0.00160	106	64.8 - 125.8
Xylene	3.18	mg/Kg	1	3.00	<0.00410	106	65.2 - 121.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[12]	2.06	mg/Kg	1	1.00	<0.00110	206	64.4 - 115.7	65	20
Toluene	[13]	2.11	mg/Kg	1	1.00	<0.00150	211	57.8 - 124.4	65	20
Ethylbenzene	[14]	2.12	mg/Kg	1	1.00	<0.00160	212	64.8 - 125.8	67	20
Xylene	[15]	6.36	mg/Kg	1	3.00	<0.00410	212	65.2 - 121.8	67	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.873	0.831	mg/Kg	1	1	87	83	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.958	0.947	mg/Kg	1	1	96	95	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 127255

QC Batch: 38280 | Date Analyzed: 2007-06-18 | Analyzed By: KB
Prep Batch: 33143 | QC Preparation: 2007-06-18 | Prepared By: KB

[12]MSD out of control limits, due to prep error (double-spiked) Use LCS/LCSD to demonstrate method in control. •
[13]MSD out of control limits, due to prep error (double-spiked) Use LCS/LCSD to demonstrate method in control. •
[14]MSD out of control limits, due to prep error (double-spiked) Use LCS/LCSD to demonstrate method in control •
[15]MSD out of control limits, due to prep error (double-spiked). Use LCS/LCSD to demonstrate method in control. •

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.20	mg/Kg	1	10.0	<0.459	82	40.7 - 157

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit	RPD	RPD Limit
GRO	8.58	mg/Kg	1	10.0	<0.459	86	40.7 - 157	4	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.867	0.900	mg/Kg	1	1	87	90	34.9 - 155
4-Bromofluorobenzene (4-BFB)	1.00	1.03	mg/Kg	1	1	100	103	58.5 - 153

Standard (ICV-1)

QC Batch: 38069 Date Analyzed: 2007-06-12 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2007-06-12

Standard (CCV-1)

QC Batch: 38069 Date Analyzed: 2007-06-12 Analyzed By AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-06-12

Standard (ICV-1)

QC Batch: 38070 Date Analyzed. 2007-06-12 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.1	97	85 - 115	2007-06-12

Standard (CCV-1)

QC Batch: 38070 Date Analyzed: 2007-06-12 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2007-06-12

Standard (CCV-2)

QC Batch: 38088 Date Analyzed: 2007-06-11 Analyzed By: AG

Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	265	106	85 - 115	2007-06-11

Standard (CCV-3)

QC Batch: 38088 Date Analyzed: 2007-06-11 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2007-06-11

Standard (ICV-1)

QC Batch: 38107 Date Analyzed: 2007-06-12 Analyzed By: AG

Param	Flag	Units	ICVs True Conc	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2007-06-12

Standard (CCV-1)

QC Batch: 38107 Date Analyzed: 2007-06-12 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	216	86	85 - 115	2007-06-12

Standard (ICV-1)

QC Batch: 38108 Date Analyzed: 2007-06-12 Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0992	99	85 - 115	2007-06-12
Toluene		mg/Kg	0.100	0.0997	100	85 - 115	2007-06-12
Ethylbenzene		mg/Kg	0.100	0.0956	96	85 - 115	2007-06-12
Xylene		mg/Kg	0.300	0.291	97	85 - 115	2007-06-12

Standard (CCV-1)

QC Batch: 38108 Date Analyzed: 2007-06-12 Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0990	99	85 - 115	2007-06-12
Toluene		mg/Kg	0.100	0.0976	98	85 - 115	2007-06-12
Ethylbenzene		mg/Kg	0.100	0.0921	92	85 - 115	2007-06-12
Xylene		mg/Kg	0.300	0.277	92	85 - 115	2007-06-12

Standard (ICV-1)

QC Batch: 38280 Date Analyzed: 2007-06-18 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.943	94	85 - 115	2007-06-18

Standard (CCV-1)

QC Batch: 38280 Date Analyzed: 2007-06-18 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2007-06-18

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Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

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PAGE: 1 OF: 1

CLIENT NAME: COG

SITE MANAGER: IKE Tavarez

PROJECT NO: 3028

PROJECT NAME: COG - JALMAT #29 Lea Co. NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
127046	6-7-07		S		G	AH-1 0-1	1				✓		X		X											X			
47			S		G	AH-1 1-1.5	1				✓															X			
48			S		G	AH-2 0-1	1				✓		X		X											X			
49			S		G	AH-2 1-1.5'	1				✓															X			
50			S		G	AH-2 2-2.5'	1				✓															X			
51			S		G	AH-2 3-3.5'	1				✓																		
52			S		G	AH-2 4-4.5'	1				✓																		
53			S		G	AH-3 0-1	1				✓		X		X											X			
54	↓		S		G	AH-3 1-1.5'	1				✓															X			

RELINQUISHED BY: (Signature) Date: 06/08/07 Time: 3:00
RECEIVED BY: (Signature) ARDD Date: 6-8-07 Time: 1500
SAMPLED BY: (Print & Sign) IKE Tavarez/Roy Tate Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4°

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: Run additional TPH if exceeds 1,000 mg/kg all tests - Midland

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Enviromental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

7060838

PAGE: 1 OF: 1

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 Fax (432) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez

PROJECT NO.: 3028
PROJECT NAME: COG- Jalmat #29 Lea Co. NM.

Columns: BTEX 8020/602; MTBE 8020/602; TPH 418.1 8015 MOD. TX1005 (8015 MOD. circled); PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Cr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; BOD, TSS, pH, TDS, Chloride (Chloride circled); Gamma Spec.; Alpha Beta (Air); PLM (Asbestos)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 8015 MOD.	Chloride
127046	6-7-07		S		✓	AH-1 0-1	1				✓		X		X	X
47	|		S		✓	AH-1 1-1.5	1				✓					X
48	|		S		✓	AH-2 0-1	1				✓		X		X	X
49	|		S		✓	AH-2 1-1.5'	1				✓				X	X
50	|		S		✓	AH-2 2-2.5'	1				✓					X
51	|		S		✓	AH-2 3-3.5'	1				✓					
52	|		S		✓	AH-2 4-4.5'	1				✓					
53	|		S		✓	AH-3 0-1	1				✓		X		X	X
54	✓		S		✓	AH-3 1-1.5'	1				✓					X

RELINQUISHED BY: (Signature) [signature] Date: 06/08/07 Time: 3:00
RECEIVED BY: (Signature) [signature] Date: 6.8.07 Time: 1500
SAMPLED BY: (Print & Sign) Ike Tavarez / Roy Taylor Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

HIGHLANDER CONTACT PERSON: Ike Tavarez
Results by: 6-19 FEP
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4°

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: Run additional TPH if exceeds 1,000 mg/kg

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Enviromental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 17, 2007

Work Order: 7081608

Project Location: Lea County, NM
Project Name: COG-Jalmat Yates Unit #29 well
Project Number: 3028

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133330	CS-1 (0-1.0') BEB (1.0')	soil	2007-08-14	00:00	2007-08-16

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
133330 - CS-1 (0-1.0') BEB (1.0')	<50.0	**11.0**

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
7200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: August 17, 2007

Work Order: 7081608

Project Location: Lea County, NM
Project Name: COG-Jalmat Yates Unit #29 well
Project Number: 3028

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133330	CS-1 (0-1.0') BEB (1.0')	soil	2007-08-14	00:00	2007-08-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 133330 - CS-1 (0-1.0') BEB (1.0')

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40129	Date Analyzed:	2007-08-16	Analyzed By:	
Prep Batch:	34727	Sample Preparation:	2007-08-16	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		169	mg/Kg	1	150	113	17.3 - 169.6

Sample: 133330 - CS-1 (0-1.0') BEB (1.0')

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40185	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34766	Sample Preparation:	2007-08-16	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**11.0**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.814	mg/Kg	1	1.00	81	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	50.8 - 131.6

Method Blank (1) QC Batch: 40129

QC Batch:	40129	Date Analyzed:	2007-08-16	Analyzed By:	
Prep Batch:	34727	QC Preparation:	2007-08-16	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		178	mg/Kg	1	150	119	32.9 - 156.1

Method Blank (1) QC Batch: 40185

QC Batch:	40185	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34766	QC Preparation:	2007-08-16	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40129 | Date Analyzed: 2007-08-16 | Analyzed By:
Prep Batch: 34727 | QC Preparation: 2007-08-16 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	223	mg/Kg	1	250	<13.4	89	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	272	mg/Kg	1	250	<13.4	109	49.1 - 142.3	20	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	194	192	mg/Kg	1	150	129	128	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40185 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34766 | QC Preparation: 2007-08-16 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.07	mg/Kg	1	10.0	<0.739	91	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.34	mg/Kg	1	10.0	<0.739	93	56 - 105.2	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.962	0.954	mg/Kg	1	1.00	96	95	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.971	0.984	mg/Kg	1	1.00	97	98	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 133330

QC Batch: 40129 | Date Analyzed: 2007-08-16 | Analyzed By:
Prep Batch: 34727 | QC Preparation: 2007-08-16 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	157	mg/Kg	1	250	<13.4	63	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	137	mg/Kg	1	250	<13.4	55	30.2 - 201.4	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	170	186	mg/Kg	1	150	113	124	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133330

QC Batch: 40185 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34766 | QC Preparation: 2007-08-16 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO [1]	10.4	mg/Kg	1	1.00	10.4	0	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO [2]	11.0	mg/Kg	1	10.0	10.4	0	10 - 102.2	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT) [3] [4]	0.878	0.916	mg/Kg	1	1	88	92	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.36	1.21	mg/Kg	1	1	136	121	58 - 162.6

Standard (ICV-1)

QC Batch: 40129 | Date Analyzed: 2007-08-16 | Analyzed By:

[1] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3] High surrogate recovery due to peak interference.
[4] High surrogate recovery due to peak interference.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	228	91	85 - 115	2007-08-16

Standard (CCV-1)

QC Batch: 40129 Date Analyzed: 2007-08-16 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	288	115	85 - 115	2007-08-16

Standard (ICV-1)

QC Batch: 40185 Date Analyzed: 2007-08-17 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2007-08-17

Standard (CCV-1)

QC Batch: 40185 Date Analyzed: 2007-08-17 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.10	110	85 - 115	2007-08-17

W O # 7081608

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

PAGE: 1 OF: 1

CLIENT NAME: COG Operating

SITE MANAGER: Ike Tavarez

PROJECT NO.: 3028

PROJECT NAME: COG/Talmat Yates Unit #29 well Lea County, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH (8015 MOD) TX1005 / 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
133330	8/14/07		S		X	CS-1 (0-1.0') BEB (1.0')	1				X				X														

RELINQUISHED BY: (Signature) Ray Taylor — Date: 8/16/07 Time: 9:15
RECEIVED BY: (Signature) — Date: Time:
SAMPLED BY: (Print & Sign) Ray Taylor — Date: 8/14/07 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Allen Walton
DATE: 8-16-07 TIME: 0915

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Good / Cool 13.5°

MATRIX: W-Water (S-Soil) A-Air SD-Solid SL-Sludge O-Other

REMARKS: all to Trace - Midland

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Enviromental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

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 October 10, 2003

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 ☐ Amended Report

Name of Company COG Operating LLC	Contact Phyllis Edwards
Address 550 W. Texas Ave., Suite 1300 Midland, TX 79701	Telephone No. 432-683-4340
Facility Name Jalmat Yates Unit #29	Facility Type Oil Well

Surface Owner **Clay Osborn**	Mineral Owner	Lease No. **301048**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	18	25S	37E	2310	South	990	West	Lea

Latitude_____ Longitude_____

NATURE OF RELEASE

Type of Release **Oil & Water**	Volume of Release **Approx 1 BO & 2 BW**	Volume Recovered **None**
Source of Release **Flowline**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **7:30 PM 6-2-07**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Landowner notified Gary Wink @ Hobbs OCD**	
By Whom? **Landowner**	Date and Hour **6-2-07 Time Unknown**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Flow line leak .
Leak repaired.
Plan of remediation is to have contaminated soil scraped from location & hauled to landfill.

Describe Area Affected and Cleanup Action Taken.*
15' x 18' area on location – oil & water & 70' x 30' mist spray on location.
Immediate action taken: dirt was shoveled & mixed with oily dirt.
On 6-5-07, contaminated soil will be dug out & hauled off.
Highlander Environmental will supervise finalization of clean-up procedure.

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: Phyllis A Edwards	OIL CONSERVATION DIVISION
Printed Name: **Phyllis A. Edwards**	Approved by District Supervisor:
Title: **Regulatory Analyst**	Approval Date: / Expiration Date:
E-mail Address: **pedwards@conchoresources.com**	Conditions of Approval: / Attached ☐
Date: **6/4/07** Phone: **432-683-4340**	

* Attach Additional Sheets If Necessary

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 June 10, 2003

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: COG Operating LLC	Contact: Phyllis Edwards
Address: 550 W. Texas Ave., Suite 1300, Midland, Tx 79701	Telephone No. (432) 683-4340
Facility Name: Jalmat Yates Unit #29	Facility Type: Oil Well

Surface Owner Clay Osborn	Mineral Owner	Lease No. 301048

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	18	25S	37E	2310'	South	990'	West	Lea

Latitude _____ **Longitude** _____

NATURE OF RELEASE

Type of Release Oil and Produced water	Volume of Release 1BO & 2BW	Volume Recovered 0 bbls
Source of Release Flowline	Date and Hour of Occurrence time unknown	Date and Hour of Discovery 06-2-07 7:30 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Landowner notified Gary Wink @ Hobbs OCD	
By Whom? Landowner	Date and Hour 06-2-07	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Flow line leak. Repaired flowline and scraped contaminated soil from location and hauled to landfill.

Describe Area Affected and Cleanup Action Taken.*
Leak area was located west and east of well location. The impacted soils were excavated and hauled to Sundance in Eunice, New Mexico for proper disposal. Highlander Environmental personnel collected confirmation samples from the excavated spill area. Final soil samples were all below the RRAL. A Closure Report was prepared and submitted to the NMOCD for review and approval.

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: Kanicia Carrillo	Approved by District Supervisor:	
Title: Regulatory Analyst	Approval Date: 9.13.07	Expiration Date:
E-mail Address: KCarrillo@conchoresources.com	Conditions of Approval:	Attached ☐
Date: Phone: (432) 685-4332		

ENVIRONMENTAL ENG

* Attach Additional Sheets If Necessary