		SIT	E INFORMATI	ON			
General Site Info	ormations	ann mar bhair àir a-t-					
Site:			ral Line of the C-line	(active)			
Company:			ield Services, LP				
Section, Townshi	p and Range	Section 33, T1	7S, R33 E				
Unit Letter:		D					
Lease Number:	-						
County:		Lea					
GPS:		32° 47' 41.7", 1					
Surface Owner:		State of New N	and a second	······			
Mineral Owner:		State of New M					
Directions:			rox. 5.0 miles southwe				
		From intersection	n of 238 and 529, go w	vest 17.4 miles on 529, turn right (north) on			
		Doglake road (pa	aved road), go 0.5 mile	es and turn right (east) on lease, road located			
		before CR 125, 1	follow main lease road	0.5 miles and turn right (at Y), take road to right			
				noco Phillips TB, spill west of TB on lease rd.			
Release Data:							
Date Released:		12/10/2004					
Type Release:		condensate	- <u></u>				
Source of Contamination: Pipeline failure			· · · · · · · · · · · · · · · · · · ·	╨╵╴┙╗ _{╗┙┙} ╴╵╷╷╴╴╲╷╍╺╫ _{╍┥╴╼} ╶┧╷╸╴┧╻╸╸┥╻╸╱┙┙╵╎╻╸╴╵╽╸╴╵╽╸┍╴╴╖╫╢┇╻╴╴ ┖╻╒┑╢╖╶╵╵╏ ┯			
Fluid Released:							
Fluids Recovered		0 barrels					
Official Commu	nication:						
Name:	Lyne Ward			lke Tavarez			
Company:		Field Services, LP		Highlander Environmental Corp.			
Address:	10 Desta Dr. S			1910 N. Big Spring			
P.O. Box	10 0000 01.0						
		70705	<u> </u>				
City:	Midland Texas		<u> </u>	Midland, Texas			
Phone number:	(432) 620-420			(432) 692- 4559			
Fax:	(432) 620-416	<u>52</u>					
Email:	lcward@duk	e-energy.com		itavarez@hec-enviro.com			
Ranking Criteria							
Depth to Groundy	vater:		Ranking Score	Site Data			
<50 ft			20				
50-99 ft >100 ft.			10	Average Death >100 PC			
~100 n.				Average Depth >100 BS			
WellHead Protect	ion:		Ranking Score	Site Data			
Water Source <1,0		200 ft.	20	None			
Water Source >1,0			0				
0		·····	Dentificação -				
Surface Body of V <200 ft.	Taler:		Ranking Score 20	Site Data			
~200 ft - 1,000 ft.			10	None None None None None None None None			
>1,000 ft.		······	0				
·····							
Tota	Ranking Sco	ore:	0	· · · ·			
				TPH ECL			
		Acceptable Sc	DILRRAL (mg/kg)	Alexandre A			
		Benzene					
		Benzene 10	Total BTEX 50	17 17 5,000			

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Highlander Environmental Corp.

Midland, Texas

May 26, 2005



Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive P. O. Box 1980 Hobbs, New Mexico 88240

RE: Assessment and Closure Report for the Duke Energy Field Services, L.P., Unnamed Lateral of the C Line (active) Located in Section 33, Township 17 South, Range 33 East, Lea County, New Mexico

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Duke Energy Field Services, L.P. (Duke) to assess a spill on the Unnamed Lateral of the C Line (active) located in Section 33, Township 17 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are N 32° 47' 41.8", W 103° 40' 27.5". The State of New Mexico C-141 (Initial) is shown in Appendix A. The Site is shown in Figure 1.

Background

According to the State of New Mexico C-141 report, the spill occurred on December 10, 2004 from a rupture of a low pressure pipeline. The volume of the release was estimated at 11 barrels of water and condensate and none recovered. Most of the fluid ran down a lease road, in an area, which measured approximately 1,000 feet long at an average width of 2.0 feet.

Groundwater and Regulatory

The New Mexico State Engineer Office database shows a well in Section 20, Township 17 South, Range 33 East, with a reported depth to water of 190'. The New Mexico State Engineer well reports are shown in Appendix B. A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (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 upon the depth to groundwater, the proposed RRAL

for TPH is 5,000 mg/kg.

Soil Assessment

On January 12, 2005, Highlander personnel inspected and collected soil samples from the spill area using a stainless steel, bucket type, hand auger. The majority of the spill was on the lease road and measured approximately 1,000 feet long, at an average width of 2.0 feet. A total of four (4) auger holes were installed to evaluate the subsurface soils. The spill area and auger hole locations are shown on Figure 2. Soil samples were collected at 0-1' and 1-1.5' below surface for analysis of TPH by method 8015M, BTEX by method 8021B and chloride by method SW 846-9252. The soil sample results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix C.

Referring to Table 1, auger holes (AH-1 and AH-2) exceeded the RRAL total BTEX at 0-1' below surface. In addition, AH-1 exceeded the TPH at 0-1'. The deeper samples at 1-1.5' did not exceed the RRAL for TPH or BTEX. The remaining auger holes (AH-3 and AH-4) did not exceed the RRAL for TPH or BTEX. The chloride concentrations detected are not considered an environmental concern.

Corrective Action and Sampling

Due to the shallow impact at the Site, Duke proposed to remediate the impacted soil in-situ. The soil remediation consisted of working the soils in place using a backhoe. The spill area was then segregated into three areas (#1, #2 and #3) for sampling. The segregated areas are shown on Figure 2. On March 3, 2005 and May 6, 2005, the impacted areas were worked and sampled for evaluation. The results are summarized in Table 1. The laboratory reports and chain of custody are included in Appendix C. Referring to Table 1, the confirmation samples collected were all below the RRAL for TPH and BTEX.

Conclusions

The TPH and BTEX confirmation sampling did not show any significant residual hydrocarbon impact above the RRAL. The chloride concentrations do not appear to be an environmental concern. Based upon the results of sampling and work performed on this Site, Duke requests closure of this spill issue. The State of New Mexico C-141 (Final) is shown in Appendix A.

If you require any additional information or have any questions or comments, please call.

HIGHLANDER ENVIRONMENTAL CORP.

lke Tavarez, P.G.

Project Manager/Senior Geologist

cc:

Lynn Ward – Duke

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Highlander Environmental Corp.



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Table 1 Duke Energy Field Service, LP Unname Lateral of the C- Line (Active)

Section 33, Township 17 South, Range 33 East Lea County, New Mexico

Sample	Date	Sample	TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride	
ID	Sampled	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
#1	1/12/2005	0-0.5	2,190	3,020	5,210	9.57	105	74.1	104.6	293.27	42.5
	1/12/2005	1-1.5	<10.0	47.8	47.8	<0.025	<0.025	<0.025	< 0.025	< 0.025	149
#2	1/12/2005	0-0.5	1,150	2,130	3,280	0.0838	11.1	19.2	27.85	58.23	234
	1/12/2005	1-1.5	16.3	102	118	<0.025	<0.025	<0.025	<0.025	<0.025	255
#3	1/12/2005	0-0.5	<10.0	28.7	28.7	-	-	-	-	-	510
·····	1/12/2005	1-1.5	<10.0	41.4	41.4	-	-	-	-	-	234
#4	1/12/2005	0-0.5	337	973	1,310	-	-	-	-	-	596
· · · · · · · · · · · · · · · · · · ·	1/12/2005	1-1.5	<10.0	38.6	38.6	-	-	-		*	<20.0
inal Confirn	nation Samplin	g	<u></u>	<u> </u>		<u> </u>	L	<u> </u>			I
Area l	3/3/2005	Composite	-	-	-	0.868	13.8	11.6	18.66	44.92	-
Area l	5/6/2005	Composite	160	1340	1500	<0.025	<0.025	<0.025	0.1307	0.1307	-
Area 2	3/3/2005	Composite	-	-	-	0.549	19.6	23.1	47.2	90.44	-
Area 2	5/6/2005	Composite		-	+	< 0.025	0.139	0.576	2.01	2.73	-
Area 3	3/3/2005	Composite		-	-	< 0.025	< 0.025	0.0338	0.141	0.1748	-

APPENDIX A

New Mexico Oil Conservation Division - Form C-141 Release Notification and Corrective Action

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Oil Con	serva	tion T	Division
Oil Con 2040 Santa	Sou	h Paç	heço
Santa	Fe, I	NM 8	7505

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

			Relea	ase No	otifica	tion a	and Cor	rective Ac	tion			
						OPER	RATOR X Initial Report Final Repo					ual Report
Name of Co							Contact	100				
Duke Energ Address	gy field Se	rvices, LP					Lynn War Telephon	rd/Ronnie Gilch e No	rest			e
10 Desta D	r., Suite 10	, Midland, T	X 7970	5			432/620-4			_		
Facility Na							Facility T	ype				
Unnamed L	ateral of th	ne C Line (A	ctive)				Pipeline					
Surface Ow						) Owner				Leas	e No.🛛 '	
State of Ne	w Mexico		•		State of	[New M	lexico			1		
							OF RELI					
Unit Letter	Section 33	Township )7S	Range 33E	Feet f	om the	North/	South Line	Feet from the	East/We	st Line	County Les County	
•••	I	Jati	ture			•	U	stade 10	3 40.	458	w	
T					NATU	RE O	FRELE			Vale	- B	
Type of Rele Condensate						Volume of Estimated			0	e Recovered		
Source of Release Pipeline failure						lour of Occurrent 3:45 pm MST	;e		nd Hour of Disco 04 @ 3:45 pm M			
Was Inunedi	ate Notice (		(Yes	No	X Not Re	oquired	If YES, To Johnny Ro	Whom? binson, Hobbs D	istrict Offic	:e, OCD		
By Whom? Lynn Ward[							Date and Hour 12/10/04 @ 5:30 pm MST					<b>-</b>
Was a Water		hed?	Yes )	( No				lume Impacting	the Waterc	ourse.		
If a Watercon NA	use was Im	pacted, Descri	be Fully.'	•			1					
One Call of a a lateral line 3 inch steel li clamped to st in the vicinity 150 feet). RJ demonstrate permitted lan Describe Are 1 hereby certi and regulatio endanger pub of liability sh	a possible re off the C him ine with a nu top further hi y as reporter RALs: 5,00 effectiveness dfarm a Affected a fy that the hi ns all operations all operations ould their of health of the	lease from a L le. Initial insp ormal volume iquids release d in the New M 0 ppm TPH, 1 s of cleanup n and Cleanup A information given tors are require the environmen perations have a environmen	DEFS line ection inc of 25 Mn for the we dexico Oi 0 ppm Be neasures. Action Tak ven above ed to repo pent. The failed to t. In addi	of conde dicated th psecfd. Th cekend at ffice of il mzene, 5 Contami cen.* b is true a ort and/or acceptar adequate ition, NM	ensate and he liquids he volume nd replace he State E 0 ppm B1 inated soi md comple file certa nee of a C ely investi 10CD acc	f water. had imple e of liqui cd on 12/ ingineer TEX. So Is will be lete to the in releas -141 reprigate and ceptance	The area of i acted 1 inch ds lost is unk (13/04. DEF s database is il samples w e disposed at e best of roy c notification ort by the NM remediate c	MST on 12/10/04 mpact was 2 feet into the surface s mown but estima S intends to pick greater than 100 ill be collected for CRI (Control Re knowledge and u as and perform co MOCD marked as ontamination that eport does not rel	by 1,000 f poils. The li ted at 11 bi- up all imp feet below illowing the covery Inc nderstand to prective ac ; "Final Re i pose a thr	inc is a l bls. The acted so: ground e remove .) as exec that purs tions for port" do cat to gr	was the result of ow pressure (15 line was blocked ils. Depth to gro surface (Well 04 al of the soils to mpt waste or to releases which es not relieve the ound water, surf	a leak on - 20 psi), d in and oundwater 4363 @ a properly D rules may c operator face
Signature:	funn	Ward	/					OIL CONS	ERVAT	ION I	DIVISION	
Printed Name	Lynn W	ard					Approved b District Sup	-				
Title: Sr. En	vironmental	Specialist					Approval D	ate:	E	xpiratio	n Date:	
Date: 12/16	/04		Phone	: 432/62	20-4207		Conditions	of Approval:			Attached	
cc: R.c Gul	silcare hering	or Fine fil	c 2.1		91	7108		3930 941	337 <del>3</del>	37		

#### State of New Mexico Energy Minerals and Natural Resources

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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			Rele	ease Notifie	catio	n and Co	orrective A	ction				
						<b>OPERA</b>	FOR	C	] Initia	al Report	$\boxtimes$	Final Repo
		Duke Energy				Contact Ly						
				land, TX. 7970	)5		No. (432) 620-4	207				
Facility Na	me Unna	me Lateral o	t the C L	ine (active)		Facility Typ	e Pipeline					
Surface Ow	mer State	e of New Me	exico	Mineral (	Owner	State of New	w Mexico		Lease N	lo.		
ļ				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/We	est Line	County		
	33	175	33E							Lea		
· L	<u> </u>	L,	.L	NAT	L FILIÓIF	OF REL	FASE	I				
Type of Rele	ase (	Condensate			UNE	Volume of			Volume I	Recovered		
		sonucinsuite				1166	s		0 bbls			
Source of Re	elease pi	peline failure					Hour of Occurrer 3:45 pm MST			Hour of Dise 3:45 pm M		
Was Immedi	Was Immediate Notice Given?					If YES, To				-		
			JYes [	J No 🛛 Not R	equired	-	obinson, NMOC			Office		
By Whom?							lour 12/10/04 5					····, ··· · · · ·
was a water	Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse. N/A						
	urse was Im	pacted, Descr	ibe Fully.	*			·= · · · · ·					
N/A												
		lem and Reme										
				pressure (15-20				d at 11 ba	rrels of a	condensate a	and wa	ter. The
area or mp	act was 2 R	et by 1,000 f	eet and na	d impacted 1 ind	en mio	the surface su						
		and Cleanup										
The impact	ed area, wh d sail and s	nich flowed or	n the lease	road, measured w impact to the s	1,000   	feet with a wi	dth of approxim	ately 2.0 f	feet. An word in n	assessment	was pe	erformed on
hvdrocarbo	n concentr:	ations below	the RRAL	. The final conf	firmatic	on samples for	r TPH and BTE	X were all	l below t	he RRAL.	The ch	loride
				in environmenta								
L hereby cert	ify that the	information a	iven above	e is true and comp	alete to	the best of my	knowledge and	understand	that nur	suant to NM		ules and
regulations a	Il operators	are required t	to report an	nd/or file certain	release i	notifications a	nd perform corre	ctive actio	ns for rel	eases which	may er	ndanger
public health	or the envi	ironment. The	e acceptan	ce of a C-141 rep	ort by th	ne NMOCD m	arked as "Final F	Report" do	es not rel	ieve the oper	rator of	liability
				v investigate and interview of a C-141								
		ws and/or reg			теропт	uoes not renev	e the operator of	responsio	inty for c	omphanee w	inin any	, other
	1/1						OIL CON	ISERVA	TION	DIVISIC	DN	
Signature:	///		X									
	401					Approved by	District Supervis	sor				
Printed Nam LP)	e: Ike Tava	rez (Agent for	Duke Ene	ergy Field Service	es,	, ipproved of	2000 C C C C C C C C C C C C C C C C C C					
Title: Senior	Geologist					Approval Da	te:	E.	piration	Date:		
	OCOIOBIS								spiration			
E-mail Addr	ess: <u>itavare</u> :	z@hec-enviro	.com			Conditions of	f Approval:		Attached			
Date: 5	131/05		Phone	: (432) 682-4559								
		ets If Necess			L					<u></u>		

## **APPENDIX B**

New Mexico Office of the State Engineer Well Reports and Downloads

#### Water Well - Average Depth to Groundwater

		Sou	<i>i</i> th	E		
ļ	6	5	4	3	2	1
	7	8	9	10	11	12
	18	17	16	15	14	13
	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

	Sou	ıth	Ea	ast	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	So	uth	Ea		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	Sou	ith	E		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	SOL	<i>i</i> th	East			
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

	17 South 33 East									
6	5	4	3	2	1					
90 7			155	158	150					
7	8	9	10	11	12					
167	173	161								
18	17	16	15	14	13					
188	180				165					
19	20	21	22	23	24					
	190			115						
30	29	28	27	26	25					
31	32	33	34	35	36					
		SITE		155						

	18 So	uth	33 East				
6	5	4	3	2	1		
7	<b>8</b> 100	9	10	11	<b>12</b> 140		
18	17	16	15	14	<b>13</b> 60		
19	20	21	22	23	<b>24</b> 195		
<b>30</b> 35	29	28	27	26	25		
31	32	33	34	35	36		

	Sou	South East			
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	So				
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

150 New Mexico Engineer average depth to groundwater (ft)

		<i>Office of the St</i> a ports and Dow	0	
Townshi	p: 17S Range: 33E	Sections:		
NAD27 X:	Y:	Zone:	Search	Radius:
County:	Basin:		Number:	Suffix:
Owner Name: (First	t) (L	ast) ④ All	() Non-	Domestic ODomestic
(W	/ell / Surface Data Report Wa Clear Form	ter Column Repo		r Report

.

#### AVERAGE DEPTH OF WATER REPORT 01/10/2005

			100 1		mildi iul	0111 0	1,10,20			
								(Depth	Water in	Feet)
Bsn	Tws	Rng	Sec	Zone	х	Y	Wells	Min	Max	Avg
L	17S	33E	01				2	150	150	150
L	17S	33E	02				4	151	168	158
L	17S	33E	03				2	155	155	155
L	17S	33E	06				2	90	90	90
L	17S	33E	07				2	114	214	164
L	17S	33E	80				2	173	173	173
L	17S	33E	09				2	160	161	161
L	17S	33E	13				2	165	165	165
L	17S	33E	17				2	180	180	180
$\mathbf{L}$	17S	33E	18				2	188	188	188
L	17S	33E	20				3	190	190	190
L	17S	33E	23				2	70	160	115
L	17S	33E	35				4	150	160	155

Record Count: 31

	<i>New Mexico C</i> Well Rej	<i>Office of the S</i> ports and Do	•	
Township: 18	3S Range: 33E	Sections:		
NAD27 X:	Y:	Zone:	Search	Radius:
County:	Basin:		Number:	Suffix:
Owner Name: (First)	(La	ast) • All	() Non-	Domestic Domestic
Well /	Surface Data Report Wat Clear Form	ter Column Re WATERS		Report

		AVERAGE I	EPTH OF	WATER REI	PORT 0	5/26/20	05		
							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	х	Y	Wells	Min	Max	Avg
CP	18S	33E 13				1	60	60	60
CP	18S	33E 24				1	195	195	195
$\mathbf{L}$	18S	33E 08				1	100	100	100
$\mathbf{L}$	18S	33E 12				2	130	150	140
$\mathbf{L}$	18S	33E 30				2	35	35	35
•									

Record Count: 7

## **APPENDIX C**

## Lab Analysis

## Lab Analysis

## 1/20/2005



## **Analytical Report**

### **Prepared for:**

Ike Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Duke/ Lateral of C Line Project Number: 2305 Location: Lea Co., NM

Lab Order Number: 5A17011

Report Date: 01/20/05

Highlander Environmental Corp.	Project:	Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number:	2305	Reported:
Midland TX, 79705	Project Manager:	Ike Tavarez	01/20/05 15:13

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 (0-0.5')	5A17011-01	Soil	01/12/05 00:00	01/14/05 17:30
#1 (1-1.5')	5A17011-02	Soil	01/12/05 00:00	01/14/05 17:30
#2 (0-0.5')	5A17011-03	Soil	01/12/05 00:00	01/14/05 17:30
#2 (1-1.5')	5A17011-04	Soil	01/12/05 00:00	01/14/05 17:30
#3 (0-0.5')	5A17011-05	Soil	01/12/05 00:00	01/14/05 17:30
#3 (1-1.5')	5A17011-06	Soil	01/12/05 00:00	01/14/05 17:30
#4 (0-0.5')	5A17011-07	Soil	01/12/05 00:00	01/14/05 17:30
#4 (1-1.5')	5A17011-08	Soil	01/12/05 00:00	01/14/05 17:30

.

Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

#### Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (0-0.5') (5A17011-01) Soil					Dutch				Holes
Benzene	9.57	0.100	mg/kg dry	100	EA51806	01/18/05	01/18/05	EPA 8021B	
Toluene	105	0.100	н 1	11	n	"	"	H	
Ethylbenzene	74.1	0.100	"	IF	и	"			
Xylene (p/m)	75.6	0.100	н	. #	"	н	**	n	
Xylene (0)	29.0	0.100	"	n		"	19	19	
Surrogate: a,a,a-Trifluorotoluene		657 %	80-1	120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		183 %	80-1	120	н	"	"	"	S-04
Gasoline Range Organics C6-C12	2190	10.0	mg/kg dry	1	EA51704	01/17/05	01/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	3020	10.0	"	н	n		"	*	
Total Hydrocarbon C6-C35	5210	10.0	11	"	n	n	"	*	
Surrogate: 1-Chlorooctane		110 %	70-1	130	"	11	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-1	130	"	"	"	"	
#1 (1-1.5') (5A17011-02) Soil									
Gasoline Range Organics C6-C12	J [9.92]	10.0	mg/kg dry	1	EA51704	01/17/05	01/17/05	EPA 8015M	J
Diesel Range Organics >C12-C35	47.8	10.0	"	"	"	*	"	**	
Total Hydrocarbon C6-C35	47.8	10.0	*	H	"	n	"	11	
Surrogate: 1-Chlorooctane		91.8 %	70	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70	130	"	"	"	"	
#2 (0-0.5') (5A17011-03) Soil									
Benzene	0.0838	0.0250	mg/kg dry	25	EA51806	01/18/05	01/18/05	EPA 8021B	
Toluene	11.1	0.0250	**	P			"	18	
Ethylbenzene	19.2	0.0250	**	"	H	"		**	
Xylene (p/m)	19.7	0.0250	"		n	**	"	Ħ	
Xylene (0)	8.15	0.0250	"	Ħ	н	"	11	"	
Surrogate: a,a,a-Trifluorotoluene		250 %	80	120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		183 %	80-	120	"	"	"	"	S-04
Gasoline Range Organics C6-C12	1150	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	2130	10.0		н	н	"	н	"	
Total Hydrocarbon C6-C35	3280	10.0	11	"	11	**	н	N	·
Surrogate: 1-Chlorooctane		109 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70	130	"	"	**	"	

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705	1910 N. Big Spring St. Project Number: 2305								Fax: (432) 682-3946 Reported: 01/20/05 15:13	
		Or	ganics b	y GC						
		Environn	nental L	ab of ]	lexas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not	
#2 (1-1.5') (5A17011-04) Soil	<u></u>	•_ •_ •								
Gasoline Range Organics C6-C12	16.3	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M		
Diesel Range Organics >C12-C35	102	10.0	**	*		H	н	11		
Total Hydrocarbon C6-C35	118	10.0	n 	H	"	**	"	ı <b>,</b>		
Surrogate: 1-Chlorooctane		93.2 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		105 %	70-1	30	"	"	"	"		
#3 (0-0.5') (5A17011-05) Soil	· ····					. <u></u>				
Gasoline Range Organics C6-C12	J [8.61]	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M		
Diesel Range Organics >C12-C35	28.7	10.0	"	n		"	и	11		
Total Hydrocarbon C6-C35	28.7	10.0	"	**	"	11	"	N		
Surrogate: 1-Chlorooctane		99.2 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		113 %	70-1	30	"	"	"	"		
#3 (1-1.5') (5A17011-06) Soil						. <u> </u>				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M		
Diesel Range Organics >C12-C35	41.4	10.0	11	n	*	Ħ	**	"		
Total Hydrocarbon C6-C35	41.4	10.0		"	11	"	11	**		
Surrogate: 1-Chlorooctane		87.0 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		100 %	70-1	130	n	**	"	**		
#4_(0-0.5') (5A17011-07) Soil	····· =					<u> </u>				
Gasoline Range Organics C6-C12	337	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M		
Diesel Range Organics >C12-C35	973	10.0	H	"	*	17	*	*		
Total Hydrocarbon C6-C35	1310	10.0	"	**	н	**	11	**		
Surrogate: 1-Chlorooctane		91.4 %			"	"	"	"		
Surrogate: 1-Chlorooctadecane		119 %	70-1	130	"	"	"	"		
#4 (1-1.5') (5A17011-08) Soil								<u>.</u>		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M		
Diesel Range Organics >C12-C35	38.6	10.0	"	H	n	•		n		
Total Hydrocarbon C6-C35	38.6	10.0	"	h	"	H		Ħ		
Surrogate: 1-Chlorooctane		91.0 %	70-1	130	"	"	"	"		
Surrogate: 1-Chlorooctadecane		98.4 %	70-1	130	"	"	"	"		

Environmental Lab of Texas

		stry Parameters b Environmental L	•		ard Met	hods		
,	,	Reporting						-
Analyte	Result	Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (0-0.5') (5A17011-01) Soil								
Chloride	42.5	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	6.3	%	1	EA51802	01/17/05	01/18/05	% calculation	
#1 (1-1.5') (5A17011-02) Soil								
Chloride	149	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	9.2	%	1	EA51802	01/17/05	01/18/05	% calculation	
#2 (0-0.5') (5A17011-03) Soil								
Chloride	234	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	4.4	%	1	EA51802	01/17/05	01/18/05	% calculation	
#2 (1-1.5') (5A17011-04) Soil	<u></u>							- <u></u>
Chloride	255	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	9.1	%	1	EA51802	01/17/05	01/18/05	% calculation	
#3 (0-0.5') (5A17011-05) Soil								
Chloride	510	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	10.0	%	1	EA51802	01/17/05	01/18/05	% calculation	
#3 (1-1.5') (5A17011-06) Soil								
Chloride	234	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	3.7	%	1	EA51802	01/17/05	01/18/05	% calculation	
#4 (0-0.5') (5A17011-07) Soil								
Chloride	596	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	5.3	%	1	EA51802	01/17/05	01/18/05	% calculation	
#4 (1-1.5') (5A17011-08) Soil								_
Chloride	ND	20.0 mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	5.3	%	1	EA51802	01/17/05	01/18/05	% calculation	

Environmental Lab of Texas

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705	, - 1	Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez									
	•	ganics by	-	•							
	]	Environm	ental L	ab of T	exas						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EA51704 - Solvent Extraction	(GC)										
Blank (EA51704-BLK1)				Prepared	& Analyz	ed: 01/17/0	05				
Gasoline Range Organics C6-C12	ND										
Diesel Range Organics >C12-C35	ND	10.0	"								
Total Hydrocarbon C6-C35	ND	10.0	н								
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	70-130				
Surrogate: 1-Chlorooctadecane	49.7		"	50.0		99.4	70-130				
LCS (EA51704-BS1)		Prepared & Analyzed: 01/17/05									
Gasoline Range Organics C6-C12	457		mg/kg	500		91.4	75-125				
Diesel Range Organics >C12-C35	528			500		106	75-125				
Total Hydrocarbon C6-C35	985		n	1000		98.5	75-125				
Surrogate: 1-Chlorooctane	50.9		"	50.0		102	70-130				
Surrogate: 1-Chlorooctadecane	50.2		"	50.0		100	70-130				
Calibration Check (EA51704-CCV1)				Prepared	& Analyz	ed: 01/17/	05				
Gasoline Range Organics C6-C12	447	· •	mg/kg	500		89.4	80-120				
Diesel Range Organics >C12-C35	512		11	500		102	80-120				
Total Hydrocarbon C6-C35	959		11	1000		95.9	80-120				
Surrogate: 1-Chlorooctane	51.7		"	50.0		103	70-130				
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130				
Matrix Spike (EA51704-MS1)	So	urce: 5A170	10-01	Prepared	& Analyz	ed: 01/17/	05				
Gasoline Range Organics C6-C12	485		mg/kg	500	ND	97.0	75-125				
Diesel Range Organics >C12-C35	485		n	500	ND	97.0	75-125				
Total Hydrocarbon C6-C35	970		n	1000	ND	97.0	75-125				
Surrogate: 1-Chlorooctane	57.7		"	50.0		115	70-130				
Surrogate: 1-Chlorooctadecane	60.1		"	50.0		120	70-130				
Matrix Spike Dup (EA51704-MSD1)	So	ource: 5A170	10-01	Prepared	& Analyz	ed: 01/17/	05				
Gasoline Range Organics C6-C12	484		mg/kg	500	ND	96.8	75-125	0.206	20		
Diesel Range Organics >C12-C35	507		n	500	ND	101	75-125	4.44	20		
Total Hydrocarbon C6-C35	991		"	1000	ND	99.1	75-125	2.14	20		
Surrogate: 1-Chlorooctane	59.7		"	50.0		119	70-130				
Surrogate: 1-Chlorooctadecane	57.9		"	50.0		116	70-130				

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 9

#### Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

#### 01/20/05 15:13

## **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51806 - EPA 5030C (GC)	<u> </u>									
Blank (EA51806-BLK1)				Prepared	& Analyze	ed: 01/17/0	)5			
Benzene	ND		mg/kg wet							
Toluene	ND	0.0250	,,							
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	n 11							
Xylene (o)	ND	0.0250								
Surrogate: a,a,a-Trifluorotoluene	112		ug/kg	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			
LCS (EA51806-BS1)				Prepared	& Analyze	ed: 01/17/0	05			
Benzene	108		ug/kg	100		108	80-120			
Toluene	106		11	100		106	80-120			
Ethylbenzene	101		н	100		101	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	103		'n	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	118		11	100		118	80-120			
Calibration Check (EA51806-CCV1)				Prepared	& Analyz	ed: 01/17/0	05			
Benzene	106		ug/kg	100	<b>_</b>	106	80-120			
Toluene	105		11	100		105	80-120			
Ethylbenzene	102		H	100		102	80-120			
Xylene (p/m)	217			200		108	80-120			
Xylene (o)	103		n	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			
Matrix Spike (EA51806-MS1)	So	urce: 5A140	)15-06	Prepared	& Analyz	ed: 01/17/	05			
Benzene	111		ug/kg	100	ND	111	80-120			
Toluene	112		"	100	ND	112	80-120			
Ethylbenzene	108			100	ND	108	80-120			
Xylene (p/m)	233		"	200	ND	116	80-120			
Xylene (o)	106		"	100	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

01/20/05 15:13

## **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51806 - EPA 5030C (GC)									
Matrix Spike Dup (EA51806-MSD1)	Sou	rce: 5A14015-06	Prepared	& Analyze	ed: 01/17/	05			
Benzene	109	ug/kg	100	ND	109	80-120	1.82	20	
Toluene	110	17	100	ND	110	80-120	1.80	20	
Ethylbenzene	112	11	100	ND	112	80-120	3.64	20	
Xylene (p/m)	233	"	200	ND	116	80-120	0.00	20	
Xylene (o)	112	11	100	ND	112	80-120	5.50	20	
Surrogate: a,a,a-Trifluorotoluene	116	"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	114	"	100		114	80-120			

Environmental Lab of Texas

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas** Reporting Spike Source %REC RPD %REC Analyte Result Limit Units Level Result Limits RPD Limit Notes Batch EA51802 - % Solids Prepared: 01/17/05 Analyzed: 01/18/05 Blank (EA51802-BLK1) 0.004 % % Moisture Duplicate (EA51802-DUP1) Source: 5A17002-01 Prepared: 01/17/05 Analyzed: 01/18/05 2.4 2.2 8.70 20 % Moisture % **Batch EA52005 - Water Extraction** Prepared & Analyzed: 01/19/05 Blank (EA52005-BLK1) ND Chloride 20.0 mg/kg Wet Source: 5A17011-01 Prepared & Analyzed: 01/19/05 Matrix Spike (EA52005-MS1) Chloride 510 20.0 mg/kg Wet 500 42.5 93.5 80-120 Matrix Spike Dup (EA52005-MSD1) Source: 5A17011-01 Prepared & Analyzed: 01/19/05 521 500 42.5 Chloride 20.0 mg/kg Wet 95.7 80-120 2.13 20 Prepared & Analyzed: 01/19/05 Reference (EA52005-SRM1) 5000 Chloride 5000 mg/kg 100 80-120

Environmental Lab of Texas

Reported:
01/20/05 15:13

#### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

alan Report Approved By: Date: 1-23-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

## Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: <u>Highlander</u> Env.
Date/Time: 01-14-05@1730
Order #: 5A17011

JMM

Initials:

#### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 · C
Shipping container/cooler in good condition?	Ves	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Motpresent
Custody Seals intact on sample bottles?	Yes	No	Not present)
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	res	No	
Container labels legible and intact?	es	No	
Sample Matrix and properties same as on chain of custody?	es	No	
Samples in proper container/bottle?	(es)	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	(P)	No	
Sufficient sample amount for indicated test?	Kes	No	
All samples received within sufficient hold time?	es	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

# Add chloride per Ike. 1-18-05 1515 M

	Variance Documentation:	
Contact Person:	Date/Time:	Contacted by:
Regarding:		
Corrective Action Taken:		<u></u>
Conective Action Taken.		

#### p.1

### Highlander Environmental Corp.

Midland, Texas

## FAX

**DATE:** 1-25-05

TO: Jeanne

WITH: Environmental Lab of Texas

FAX: 1-(432) 563-1713

**FROM:** Ike Tavarez

WITH: Highlander Environmental Corp. Midland, Texas

#### PAGES:

(including Fax cover)

#### **Description:**

1. Duke Energy Field Service – Lateral of C Line, Lea County, New Mexico Order # 5A17011

#### Requesting additional analyses:

BTEX Analysis: #1 (1-1.5) #2 (1-1.5)

Please call me if you have any questions, Thanks

HIGHLANDER ENVIRONMENTAL CORP. 1910 N. BIG SPRING MIDLAND, TEXAS 79705 (432) 682-4559 e-mail: <u>itavarez@hec-enviro.com</u>

If fax is not legible please call Ike Tavarez at (432) 682-4559

Analysis Request and Ch	ain of Custod	ly	Re	ecc	ord						P. NALY	AGE:	DEAL	/		OF	: /		
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Midland, Texa								770005	Pb Hg	R R									
(432) 682-4559	Fax	(432	2)6	82-3	3946				2	2 2			5		-8				
CLIENT NAME: DUKE SITE MANA	10	NERS			ERVATI STHOD	VE		BOIS NOD.	蠹	B		380/624	8270/625		Chloride				
PROJECT NO.: 2301 PROTECT NAME: Laterel	1 C- line,	OF CONTAINERS					906 		s Ag As	1 Ag As 100	Volatile	8240/8		208 208	H, 108,	(Atr)	tos)	2	
LARIN KELL	County NM DENTIFICATION	NUMBER OF	HCI.	EONH	ICE NONE		MTBE BOR0/602	17H 418.1 PAH 61270	RCRA Metals Ag	TCLP Metals A TCLP Volatiles	TCLP Semi Volatiles	GC.MS Vol. 8240/8280/624	GC.MS Semi. Vol.	Peet. 808/608	BOD, TSS, pH, TDS, Camma Shar	demma opec. Alpha Beta (Air)	PLM (Asbestos)	Chhu	
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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.



Analytical Report

Prepared for:

Ike Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Duke/ Lateral of C Line Project Number: 2305 Location: Lea Co., NM

Lab Order Number: 5A17011

Report Date: 01/28/05

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

Fax: (432) 682-3946 Reported:

01/28/05 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 (1-1.5')	5A17011-02	Soil	01/12/05 00:00	01/14/05 17:30
#2 (1-1.5')	5A17011-04	Soil	01/12/05 00:00	01/14/05 17:30

Highlander Environmental Corp.	Project: I	Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2	2305	Reported:
Midland TX, 79705	Project Manager: I	ke Tavarez	01/28/05 13:50

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (1-1.5') (5A17011-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA52719	01/26/05	01/26/05	EPA 8021B	
Toluene	ND	0.0250	н			*	97	"	
Ethylbenzene	ND	0.0250	n	**	n	u	н	u	
Xylene (p/m)	ND	0.0250	n		"	"	"	19	
Xylene (0)	ND	0.0250	n	*	н	11	n	11	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1	20	"	"	"	"	
#2 (1-1.5') (5A17011-04) Soil					_		_		
Benzene	ND	0.0250	mg/kg dry	25	EA52719	01/26/05	01/26/05	EPA 8021B	
Toluene	ND	0.0250	н	"		**		*1	
Ethylbenzene	ND	0.0250	"	n	"	11	"	11	

80-120

80-120

"

"

"

,,

"

"

n

"

Surrogate: a,a,a-Trifluorotoluene

ND

ND

0.0250

0.0250

99.8 %

88.8 %

Xylene (p/m)

Xylene (o)

Surrogate: 4-Bromofluorobenzene

Environmental Lab of Texas

Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

Reported: 01/28/05 13:50

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
					Result			<u>N D</u>	L'iiit	140105
Batch EA52719 - EPA 5030C (GC)										
Blank (EA52719-BLK1)				Prepared	& Analyze	ed: 01/26/0	05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	u							
Xylene (0)	ND	0.0250	11							
Surrogate: a,a,a-Trifluorotoluene	99.9		ug/kg	100		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	85.9		"	100		85.9	80-120			
LCS (EA52719-BS1)				Prepared:	01/26/05	Analyzed	: 01/28/05			
Benzene	93.7		ug/kg	100		93.7	80-120			
Toluene	89.3		11	100		89.3	80-120			
Ethylbenzene	95,9			100		. 95.9	80-120			
Xylene (p/m)	215		н	200		108	80-120			
Xylene (0)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100	· · · · · · · · · · · · · · · · · · ·	119	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			
Calibration Check (EA52719-CCV1)				Prepared:	01/26/05	Analyzed	I: 01/28/05			
Benzene	96.2		ug/kg	100		96.2	80-120			
Toluene	86.9		н	100		86.9	80-120			
Ethylbenzene	90.1		"	100		90.1	80-120			
Xylene (p/m)	201		**	200		100	80-120			
Xylene (o)	101		**	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	120		"	100		120	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.I	80-120			
Matrix Spike (EA52719-MS1)	So	urce: 5A25()15-09	Prepared	: 01/26/05	Analyzed	1: 01/28/05			
Benzene	95.6		ug/kg	100	ND	95.6	80-120			
Toluene	89.4		n	100	ND	89.4	80-120			
Ethylbenzene	97.9		n	100	ND	97. 9	80-120			
Xylene (p/m)	220		11	200	ND	110	80-120			
Xylene (o)	111		"	100	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			

Project: Duke/ Lateral of C Line Project Number: 2305 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 01/28/05 13:50

Organics by GC - Quality Control

Environmental Lab of Texas

	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit Unit:	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA52719 - EPA 5030C (GC)									
Matrix Spike Dup (EA52719-MSD1)	Sour	ce: 5A25015-09	Prepared	: 01/26/05	Analyzed	: 01/28/05			
Benzene	97.2	ug/kg	; 100	ND	97.2	80-120	1.66	20	
Toluene	90.6	n	100	ND	90.6	80-120	1.33	20	
Ethylbenzene	98.5	11	100	ND	98.5	80-120	0.611	20	
Xylene (p/m)	221		200	ND	110	80-120	0.00	20	
Xylene (0)	111	n	100	ND	111	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	118	"	100		118	80-120			

,,

100

114

80-120

118 Surrogate: a,a,a-Trifluorotoluene 114 Surrogate: 4-Bromofluorobenzene

Environmental Lab of Texas

Highlander Environmental Corp.	Project: Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2305	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	01/28/05 13:50

Notes and Definitions

	DET	Analyte DETECTED
-	ND	Analyte NOT DETECTED at or above the reporting limit
	NR	Not Reported
•	dry	Sample results reported on a dry weight basis
	RPD	Relative Percent Difference
ļ	LCS	Laboratory Control Spike
	MS	Matrix Spike
	Dup	Duplicate

Kalande Jund Date: 1-28-05 Report Approved By:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas
Lab Analysis

3/07/2005



Analytical Report

Prepared for:

Ike Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Duke/ Lateral of C Line Project Number: 2301 Location: Lea County, NM

Lab Order Number: 5C04018

Report Date: 03/07/05

.

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Composite	5C04018-01	Soil	03/03/05 00:00	03/04/05 13:25
#2 Composite	5C04018-02	Soil	03/03/05 00:00	03/04/05 13:25
#3 Composite	5C04018-03	Soil	03/03/05 00:00	03/04/05 13:25

Project: Duke/ Lateral of C Line Project Number: 2301 Project Manager: Ike Tavarez

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil									
Benzene	0.868	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	13.8	0.0250	"		"	"	**	**	
Ethylbenzene	11.6	0.0250	"		H	"	11	11	
Xylene (p/m)	13.8	0.0250	"	"	"	"	"	91	
Xylene (o)	4.86	0.0250	11	*	"	"	n	н	
Surrogate: a,a,a-Trifluorotoluene		266 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	"	"	,,	"	
#2 Composite (5C04018-02) Soil					Nut 20-27-21-21-2				
Benzene	0.549	0.100	mg/kg dry	100	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	19.6	0.100	"	n		"		10	
Ethylbenzene	23.1	0.100		н	н	Ð	"	n	
Xylene (p/m)	34.3	0.100	*	n		"	n	n	
Xylene (o)	12.9	0.100	"	n	I)	11	H	n	
Surrogate: a,a,a-Trifluorotoluene		188 %	80-,	120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		116 %	80	120	"	"	"	"	
#3 Composite (5C04018-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	ND	0.0250	**	н	n			n	
Ethylbenzene	0.0338	0.0250	*	n	"	n	"	*	
Xylene (p/m)	0.0627	0.0250	**	"	н	H	н	**	
Xylene (o)	0.0783	0.0250	"	н	"	11	n	*	
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	80	120	"	"	"	"	

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil									
% Moisture	9.7	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
#2 Composite (5C04018-02) Soil									
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
#3 Composite (5C04018-03) Soil									
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	

Environmental Lab of Texas

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC50408 - EPA 5030C (GC)										<u> </u>
Blank (EC50408-BLK1)				Prepared:	03/03/05	Analyzed	: 03/04/05			
Benzene	ND		mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250								
Xylene (0)	ND	0.0250	n							
Surrogate: a,a,a-Trifluorotoluene	91.9		ug/kg	100		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	98.1		"	100		98.1	80-120			
LCS (EC50408-BS1)				Prepared	& Analyz	ed: 03/03/	05			
Benzene	111		ug/kg	100		111	80-120			
Toluene	115		19	100		115	80-120			
Ethylbenzene	113		"	100		113	80-120			
Xylene (p/m)	238		P	200		119	80-120			
Xylene (0)	118		*	100		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	111		"	100		111	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			
Calibration Check (EC50408-CCV1)				Prepared:	03/03/05	Analyzed	: 03/04/05			
Benzene	101		ug/kg	100		101	80-120			
Toluene	101		н	100		101	80-120			
Ethylbenzene	89.3			100		89.3	80-120			
Xylene (p/m)	199		17	200		99.5	80-120			
Xylene (0)	96.7		"	100		96.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.0		"	100		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	85.2		"	100		85.2	80-120			
Matrix Spike (EC50408-MS1)	So	urce: 5C030	04-02	Prepared	& Analyz	ed: 03/03/	05			
Benzene	114		ug/kg	100	ND	114	80-120			
Toluene	120		"	100	ND	120	80-120			
Ethylbenzene	110		"	100	ND	110	80-120			
Xylene (p/m)	237		"	200	ND	118	80-120			
Xylene (o)	117		"	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			

Environmental Lab of Texas

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line Project Number: 2301 Project Manager: Ike Tavarez

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC50408 - EPA 5030C (GC)

Matrix Spike Dup (EC50408-MSD1)	Source:	5C03004-02	Prepared	& Analyz	ed: 03/03/	'05		
Benzene	99.8	ug/kg	100	ND	99.8	80-120	13.3	20
Toluene	100	**	100	ND	100	80-120	18.2	20
Ethylbenzene	92.6	•1	100	ND	92.6	80-120	17.2	20
Xylene (p/m)	208	**	200	ND	104	80-120	12.6	20
Xylene (o)	101	"	100	ND	101	80-120	14.7	20
Surrogate: a,a,a-Trifluorotoluene	94.2	"	100		94.2	80-120		
Surrogate: 4-Bromofluorobenzene	91.7	"	100		<i>91.</i> 7	80-120		

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC50704 - General Prepar	ration (Prep)									
Blank (EC50704-BLK1)				Prepared:	03/04/05	Analyzed	: 03/07/05			
% Moisture	ND	0.1	%							
Duplicate (EC50704-DUP1)	So	urce: 5C040()1-01	Prepared:	03/04/05	Analyzed	: 03/07/05			
% Moisture	0.9	0.1	%		1.3			36.4	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 6 of 7

Highlan	der Environmental Corp.	Project:	Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N.	Big Spring St. TX, 79705	Project Number:	2301	Reported:
Midland	I TX, 79705	Project Manager:	Ike Tavarez	03/07/05 12:05
		Notes and De	efinitions	
S-04	The surrogate recovery for this sa	mple is outside of established	control limits due to a sample matrix eff	fect.
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above	e the reporting limit		
NR	Not Reported			
dry	Sample results reported on a dry weig	th basis		
RPD	Relative Percent Difference			
LCS	Laboratory Control Spike			
MS	Matrix Spike			

Raland K Juits Date: 3-07.05 Report Approved By:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

Duplicate

Dup

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: <u>Highlander</u>	
Date/Time:4(052	
Order #: 5004018	
Initials:	

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.0° C
Shipping container/cooler in good condition?	(Tes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	(ES	No	
Sample Instructions complete on Chain of Custody?	tes	No	
Chain of Custody signed when relinquished and received?	yes.	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	(Pes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Tes	No	
Sample bottles intact?	(Ēs	No	
Preservations documented on Chain of Custody?	(Yês	No	
Containers documented on Chain of Custody?	Yes	(NO)	
Sufficient sample amount for indicated test?	(res)	No	
All samples received within sufficient hold time?	(ES)	No	
VOC samples have zero headspace?	69	No	Not Applicable

Other observations:

	Variance Documentation: Date/Time:	_ Contacted by:
Regarding:		
Corrective Action Taken:		

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		HIG2 2) 682-			1	9	10	N.	В	VI Sig Te:	SF	pri	inį	g S	St.			L Fax					394	46				. 11005		As Ba Cd Cr Pb Hg Se 4. Br Cd Cr Pb Hg Se					5			de					
	CLIENT N		Uke						SIT (E M		FR	: LA	· . 7	<u>,</u>				INERS		F	PRES M	ERI		VE		:	8015 MOD.		As Ba Cd				800/624	8270/625			Chloride.					
	PROJECT	NO.:.23	0/	F	PBOJ		NA 2/		zli	int	0ζ	in	ب ف	(c	-2	ing	,)		CONTAINERS	(N/X)						808	/602	-			e	Volatile		8240/8	L. Vol. 8	608	808	p.H. TDS.	60.	(ALT)	•		
	LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GKAB	/		Çê S	ampi	Cø E I	n.I DEN	Ey VTIF	א icat	مەر ION	~			NUMBER OF	FILTERED (HCL	HNOS	ICE	NONE		BTEX 3020/602	MTBE 8020/602	1.81 4 HTT	PAH 8270	RCRA Metals Ag	TCIP Volatiles	TCIP Semi Valatiles	RCI	GC.MS Vol.	GC.MS Semt. Vol. 8270/82	PCB's 8080/608	Pest. 806/608	BOD, TSS, pH,	Gamma Spec.	Alpha Bota (Air) PLM (Asbestos)			
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Analytical Report

Prepared for:

lke Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Duke/ Lateral of C Line Project Number: 2301 Location: Lea County, NM

Lab Order Number: 5C04018

Report Date: 03/07/05

Hig	plander Environmental Corp.	Project:	Duke/Lateral of C Line	Fax: (432) 682-3946
191	0 N. Big Spring St.	Project Number:	2301	Reported:
Міс	dland TX, 79705	Project Manager:	lke Tavarez	03/07/05 17:25

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Composite	5C04018-01	Soil	03/03/05 00:00	03/04/05 13:25
#2 Composite	5C04018-02	Soil	03/03/05 00:00	03/04/05 13:25
#3 Composite	5C04018-03	Soil	03/03/05 00.00	03/04/05 13:25

Highlander Environmental Corp.		I	Project: Du	ke/ Lateral	of C Line			Fax: (432) 682-3946				
1910 N. Big Spring St.			umber: 230					Reported:				
Midland TX, 79705		Project M	anager: Ike	Tavarez				03/07/05 1	7:25			
		O	rganics b	y GC								
		Environ	mental L	ab of Te	exas							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
#1 Composite (5C04018-01) Soil												
Benzene	0.868	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B				
Toluene	13.8	0.0250				•						
Ethylbenzene	11.6	0.0250			-	-		-				
Xylene (p/m)	13.8	0.0250		•		-	•					
Xylene (o)	4.86	0.0250		-				*				
Surrogate: a,a,a-Trifluorotoluene		266 %	80-	120	, , , , , , , , , , , , , , , , , , , ,	"	,,	<i>n</i>	S-0			
Surrogate: 4-Bromofluorobenzene		102 %	80	120	"		"	"				
#2 Composite (5C04018-02) Soil												
Benzene	0.549	0.100	mg/kg dry	100	EC 50408	03/04/05	03/04/05	EPA 8021B				
Toluene	19.6	0.100	-	n	-		**					
Ethylbenzene	23.1	0.100	•	-		-	••	*				
Xylene (p/m)	34.3	0.100			-	-	•					
Xylene (o)	12.9	0.100		•	-	-	-	**				
Surrogate: a,a,a-Trifluorotoluene		188 %	80-	120		"	"	"	S-0			
Surrogate: 4-Bromofluorobenzene		116 %	80-	120	"	"		"				
#3 Composite (5C04018-03) Soil												
Benzene	ND	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B				
Toluene	ND	0 0250	.,		•	•	-	14				
Ethylbenzene	0.0338	0.0250										
Xylene (p/m)	0.0627	0.0250			-							
Xylene (0)	0.0783	0.0250				-		**				
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80	120		"						
Surrogate: 4-Bromofluorobenzene		92.9 %	80-	120	"	**	**	μ				

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Environmental Lab of Texas

Highlander Environmental Corp.	Project: Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2301	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	03/07/05 17:25

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General Chemistry Parameters by EPA / Standard Methods

		Environn	iental I	lab of Te	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil									
% Moisture	9.7	0.1	%	I	EC 50704	03/04/05	03/07/05	% calculation	
#2 Composite (5C04018-02) Soil		_							
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
#3 Composite (5C04018-03) Soil									
% Moisture	5.6	0.1	%	1	EC 50704	03/04/05	03/07/05	% calculation	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lub of Texas.

12600 West I-20 East - Odessa. Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp. 1910 N. Big Spring St.		Pr Project Nu	,	ke/ Lateral o	f C Line				Fax: (432) 682-3946					
Midland TX, 79705		Project Nu Project Mar							Вера 03/07/0					
	0	rganics by	GC - Q	Quality Co	ontrol									
		Environm	ental L	ab of Te	xas									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes				
Batch EC50408 - EPA 5030C (GC)														
Blank (EC50408-BLK1)				Prepared: (03/03/05 A	nalyzed: 03	3/04/05							
Benzene	ND	0 0250	mg/kg wet							· · ·				
Foluene	ND	0 0250												
Ethylbenzene	ND	0.0250	•											
Xylene (p/m)	ND	0.0250	•											
Xylene (0)	ND	0.0250												
Surrogate: a,a,a-Trifluorotoluene	91.9		ng kg	100		91.9	80-120							
Surrogate: 4-Bromofluorobenzene	98.1			100		98. I	80-120							
LCS (EC50408-BS1)				Prepared &	k Analyzed:	03/03/05								
Benzene	11)		ug/kg	100		111	80-120							
Foluene	115		**	100		115	80-120							
Ethylbenzene	113		•	100		113	80-120							
Xylene (p/m)	238		••	200		119	80-120							
Xylene (0)	118			100		118	80-120							
Surrogate: a.a,a-Trifluorotoluene	117			100		111	80-120							
Surrogate: 4-Bromofluorobenzene	112		"	100		112	×0-120							
Calibration Check (EC50408-CCV1)				Prepared: (03/03/05 A	nalyzed: 03	3/04/05							
Benzene	101		ug/kg	100		101	80-120							
foluene	101		-	100		103	80-120							
Ethylbenzene	89.3			100		89.3	80-120							
Kylene (p/m)	199		•	200		99.5	80-120							
Kylene (0)	96 7		**	100		96.7	80-120							
Surrogate: a.a.a-Trifluoroioluene	99 U		•	100		99 Û	80-120							
ŝurrogate: 4-Bromofluorobenzene	85.2		"	100		85.2	80-120							
Matrix Spike (EC50408-MS1) Benzene	Sou	rce: 5C03004-	02 ug/kg	Prepared &	Analyzed ND	03/03/05	80-120							
foluene	120		u£/K£	100	ND	114	80-120							
Sthy Ibenzene	110		-	100	ND	110	80-120							
Kylene (p/m)	237			200	ND	110	80-120							
(yiene (o)	117		-	100	ND	117	80-120							
urrogate: a.a.a-Trifluorotoluene	,,-		· · · · ·						-					
urrogaie: a.a.a- i rijiuoroioiuene Surrogate: 4-Bromofluorobenzene	112		"	100 100		11 ⁻ 112	80-120 80-120							

Environmental Lab of Texas

The results in this report opply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Highlander Environmental Corp.	Project: Duke/ Lateral of C Line	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2301	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	03/07/05 17:25

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch EC50408 - EPA 5030C (GC)											
Matrix Spike Dup (EC50408-MSD1)	Som	rce: 5C03004	-02	Prepared &	Analyzed	03/03/05					

Matrix Spike Dup (EC50408-MSD1)		03004-02	Prepared &						
Benzene	99.8	ug/kg	100	ND	99.8	80-120	13.3	20	
Toluene	100		100	ND	100	80-120	18.2	20	
Ethylbenzene	92.6	-	100	ND	92.6	80-120	17.2	20	
Xylene (p/m)	208		200	ND	104	80-120	12.6	20	
Xylene (0)	101	-	100	ND	101	80-120	14.7	20	
Surrogate: a,a,a-Trifluorotoluene	94.2		100		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	91	"	100		91.7	80-120			

Environmental Lab of Texas

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Алајуњ	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Noles
Batch EC50704 - General Preparation (Prep)										
Blank (EC50704-BLK1)				Prepared: (03/04/05 A	nalyzeđ: 03	/07/05			
% Moisture	ND	0.1	%							
Duplicate (EC50704-DUP1)	Sou	rce: 5C04001-	01	Prepared: (03/04/05 A	nalyzed: 03	/07/05			
% Moisture	0.9	0.1	%		1.3			36.4	20	

Environmental Lab of Texas

Highland	ler Environmental Corp.	Project	Project: Duke/ Lateral of C Line						
1910 N.	Big Spring St.		Project Number: 2301						
Midland	TX, 79705	Project Manager:	lke Tavarez	03/07/05 17:25					
S-04	The surrogate recovery for this samp	le is outside of established control	limits due to a sample matrix effect.						
DET	Analyte DETECTED								
ND	Analyte NOT DETECTED at or above the	e reporting limit							
NR	Not Reported								
dry:	Sample results reported on a dry weight b	pasis							
RPD	Relative Percent Difference								
LCS	Laboratory Control Spike								
MS	Matrix Spike								
Dup	Duplicate								

Report Approved By:

Raland K Julie 3/7/2005 Date

Rałand K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

	Analysis Request and Chain of Custo	dv	F	le	\overline{co}	rd								PAG					OF:		7
					*****						(Cir			Spe Spe				No	.)		
	HIGHLANDER ENVIRONMENTAL 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 Fax					946			172 005		Cr Pb Rg Be	ž Z						de			
	CLIENT NAME: Dike SITE MARKGER:	MERS		Pl		RVAT THOD			GOM 2108		202	2	in		1380/824 8270 /695	in in	3 N	Chloride			
	PROJECT NO.: 2301 PROJECT NAME: (Alter Cinic (C-Line)	CONTAINERS	(N/N)					808			42 44		Volatila		Boi a	606	808	H, 708,	(Air)	tom)	
:004	LAB I.D. DATE THE A SAMPLE IDENTIFICATION	NUMBER DF	632	HCI.	1000	ACDE MONE			TPH 418.1	8	RUNA Metala Ag	TCLP Volatilos	TCLP Send Volatilae	RCI	GCAS Val. 6240/8360/824	PC8's 8080/606	Past. 508/508	BOD, 755, pH, 726, Camme Show	Alpha Rota	PLM (Asbeaton)	
8	-01 3/3/05- 5 4 #1 Composite	1				1		X													
	-02 3/3/05 5 Y #2 Conceste	1			•	1		X													
	-03 3/3/6- X # 3 Corposite	1				1		Y													
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	RELINDUITER 19. (Senature) Date: RELEIVED HY: (Signature)			Det Tim	.			 	1	K	2	IL	<u>n</u>	1 - 2 7 - 2	· ~			Dat Tim		/ /	
	PELINQUINIED BY: (Signature) Dets: RECEIVED BY: (Signature) NRUNQUISHED BY: (Signature) Date: RECEIVED BY: (Signature)			Det Tim Det					TE3	(PLS XEX VD D					cis) RUS UPB			THE			
	TERESTVENCE LABURATORY: ZCL ADURATS CONTACT:	1/C	5	11 <u>00</u>		5			ma	1/2	IDER FC	<u></u> /	inia Un	FE JO	R301 	¥: Z		-	Result 2030 Author Yes	Coars	w No
	SAMPLE CONDITION WHEN RECEIVED: MATRIX: W-Water A-Air SID-Solid 3.0°C Sector SI-Solidy O-Other			RI	MAR	(3:		J				A				~~~~					

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Please Mil out all copies - laboratory retains yellow copy - Return original copy to Highlander Saviromental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client:	Highlander	Y
Date/Time:	al 4/05	2:00
Order #:	5004018	
Initials:	ck	

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.0° C
Shipping container/cooler in good condition?	(Yeş	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	(es	No	
Sample Instructions complete on Chain of Custody?	des	No	
Chain of Custody signed when relinguished and received?	yes	No	
Chain of custody agrees with sample label(s)	Xes	No	
Container labels legible and intact?	Tes	No	
Sample Matrix and properties same as on chain of custody?	Nes	No	
Samples in proper container/bottle?	Yes	No I	
Samples properly preserved?	Wes	No	
Sample bottles intact?	(es	No I	
Preservations documented on Chain of Custody?	(Yês	No I	
Containers documented on Chain of Custody?	Yes	(this)	
Sufficient sample amount for indicated test?	1 yes	No	
All samples received within sufficient hold time?	des	No	
VOC samples have zero headspace?	(eg)	No	Not Applicable

Other observations:

Variance Documentation:

-

Contact Person: Regarding:	Date/Time:	Contacted by:	
Corrective Action Taken:		· · · · · · · · · · · · · · · · · · ·	
,			**************************************
			<u> </u>

Lab Analysis

5/12/2005



Analytical Report

Prepared for:

Ike Tavarez Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Duke/ Lateral of C Line Project Number: 2301 Location: Lea County, NM

Lab Order Number: 5E10005

Report Date: 05/12/05

Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line Project Number: 2301 Project Manager: Ike Tavarez

Fax: (432) 682-3946 Reported:

05/12/05 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area #1	5E10005-01	Soil	05/06/05 00:00	05/09/05 17:25
Area #2	5E10005-02	Soil	05/06/05 00:00	05/09/05 17:25

Project: Duke/ Lateral of C Line Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946 Reported: 05/12/05 13:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Area #1 (5E10005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51116	05/11/05	05/11/05	EPA 8021B	
Toluene	ND	0.0250	**	н		"	n		
Ethylbenzene	J [0.0149]	0.0250	n	н	*	"		11	
Xylene (p/m)	0.0553	0.0250	"	n	"	n	H	17	
Xylene (0)	0.0754	0.0250	н .	n	**	#	11	0	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	160	10.0	mg/kg dry	1	EE51003	05/10/05	05/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	1340	10.0	н	"	**	**	11	v	
Total Hydrocarbon C6-C35	1500	10.0	н	н	11	n	11	"	
Surrogate: 1-Chlorooctane		81.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.2 %	70-1	30	"	"	"	"	
Area #2 (5E10005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51116	05/11/05	05/11/05	EPA 8021B	
Toluene	0.139	0.0250		"	"	"	н	**	
Ethylbenzene	0.576	0.0250	н	11	"	"	"	n	
Xylene (p/m)	1.34	0.0250		и	11	"	п	"	
Xylene (0)	0.675	0.0250	11	"	"	n	n	"	
Surrogate: a,a,a-Trifluorotoluene		83.3 %	80	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %	80	120	"	"	"	"	

Environmental Lab of Texas

Highlander Environmental Corp.Project:Duke/ Lateral of C LineFax: (432) 682-39461910 N. Big Spring St.Project Number:2301Reported:Midland TX, 79705Project Manager:Ike Tavarez05/12/05 13:49

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Area #1 (5E10005-01) Soil								·	
% Moisture	5.6	0.1	%	1	EE51102	05/10/05	05/11/05	% calculation	
Area #2 (5E10005-02) Soil									
% Moisture	6.0	0.1	%	1	EE51102	05/10/05	05/11/05	% calculation	

Environmental Lab of Texas

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51003 - Solvent Extraction ((GC)	·								
Blank (EE51003-BLK1)				Prepared	& Analyze	ed: 05/10/0	05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.1		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
LCS (EE51003-BS1)				Prepared	& Analyze	ed: 05/10/0	05			
Gasoline Range Organics C6-C12	442	10.0	mg/kg wet	500		88.4	75-125			
Diesel Range Organics >C12-C35	448	10.0	н	500		89.6	75-125			
Total Hydrocarbon C6-C35	890	10.0	14	1000		89.0	75-125			
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.8	70-130			
Surrogate: 1-Chlorooctadecane	35.8		"	50.0		71.6	70-130			
LCS Dup (EE51003-BSD1)				Prepared	& Analyze	ed: 05/10/	05			
Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125	4.16	20	
Diesel Range Organics >C12-C35	480	10.0	"	500		96.0	75-125	6.90	20	
Total Hydrocarbon C6-C35	904	10.0	n	1000		90.4	75-125	1.56	20	
Surrogate: 1-Chlorooctane	38.5		mg/kg	50.0		77.0	70-130			
Surrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			
Calibration Check (EE51003-CCV1)				Prepared	& Analyze	ed: 05/10/	05			
Gasoline Range Organics C6-C12	498		mg/kg	500		99.6	80-120			
Diesel Range Organics >C12-C35	514		н	500		103	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	42.4		17	50.0		84.8	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		73.0	70-130			

Environmental Lab of Texas

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51116 - EPA 5030C (GC)					<u>.</u>					
Blank (EE51116-BLK1)				Prepared	& Analyze	ed: 05/11/0	05			
Benzene	ND	0.0250	mg/kg wet		· · · · ·					
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	82.5		ug/kg	100		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	82.7		"	100		82.7	80-120			
LCS (EE51116-BS1)				Prepared	& Analyze	ed: 05/11/0	05			
Benzene	84.3		ug/kg	100		84.3	80-120			
Toluene	82.7			100		82.7	80-120			
Ethylbenzene	82.2			100		82.2	80-120			
Xylene (p/m)	186		"	200		93.0	80-120			
Xylene (o)	91.6		"	100		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	100		"	100		100	80-120			
Surrogate: 4-Bromofluorobenzene	91.4		"	100		91.4	80-120			
Calibration Check (EE51116-CCV1)				Prepared	& Analyze	ed: 05/11/	05			
Benzene	98.7		ug/kg	100	· · · · ·	98.7	80-120			
Toluene	91.2		11	100		91.2	80-120			
Ethylbenzene	85.7		n	100		85.7	80-120			
Xylene (p/m)	191		н	200		95.5	80-120			
Xylene (o)	. 90.0		n	100		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.5		"	100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	87.7		"	100		87.7	80-120			
Matrix Spike (EE51116-MS1)	So	urce: 5E110	01-06	Prepared	& Analyz	ed: 05/11/	05			
Benzene	98.7		ug/kg	100	ND	98.7	80-120			
Toluene	94.6		11	100	ND	94.6	80-120			
Ethylbenzene	94.6		"	100	ND	94.6	80-120			
Xylene (p/m)	222		"	200	44.1	89.0	80-120			
Xylene (o)	98.7		n	100	ND	98.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	91.2		"	100		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

Environmental Lab of Texas

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51116 - EPA 5030C (GC)									
Matrix Spike Dup (EE51116-MSD1)	Sou	Prepared	& Analyz	ed: 05/11/	05				
Benzene	100	ug/kg	100	ND	100	80-120	1.31	20	
Toluene	96.3	"	100	ND	96.3	80-120	1.78	20	
Ethylbenzene	96.3	*	100	ND	96.3	80-120	1.78	20	
Xylene (p/m)	221	11	200	44.1	88.4	80-120	0.676	20	
Xylene (o)	102	"	100	ND	102	80-120	3.29	20	
Surrogate: a,a,a-Trifluorotoluene	101	"	100		101	80-120			

100

106

80-120

Surrogate: a,a,a-1rifituorototuene 101 " Surrogate: 4-Bromofluorobenzene 106 "

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51102 - General Prepar	ation (Prep)									
Blank (EE51102-BLK1)				Prepared:	05/10/05	Analyzed	: 05/11/05			
% Moisture	ND	0.1	%							
Duplicate (EE51102-DUP1)	So	urce: 5E1000	1-01	Prepared:	05/10/05	Analyzed	: 05/11/05			
% Moisture	11.1	0.1	%		10.5			5.56	20	

Environmental Lab of Texas

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis

- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike

Dup Duplicate

Report Approved By:

By: Ralandketul

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

5-12-05

Date:

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: <u>H</u>	ighlander
Date/Time:	5/10/05 8:00
Order #:	5E10005
Initials:	Ck

Sample Receipt Checklist

Temperature of container/ccoler?	Yes	No	1 4.0 CI
Shipping container/cooler in good condition?	Ves	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Nct present
Custody Seals intact on sample bottles?	Yes	No	Hot present
Chain of custody present?	1 des	Na	
Sample Instructions complete on Chain of Custody?	1 Xas	No	
Chain of Custody signed when relinquished and received?	1 des	Nc	
Chain of custody agrees with sample label(s)	Ares	No]
Container labels legible and intact?		No	1
Sample Matrix and properties same as on chain of custody?	Ares	No	1
Samples in proper container/bottle?	1/25	No	
Samples properly preserved?	Pes	Nc	1
Sample bottles intact?	125	No	1
Preservations documented on Chain of Custody?	1 Xas	Na	
Containers documented on Chain of Custody?	1 MES	No	1
Sufficient sample amount for indicated test?	Yas	No	
All samples received within sufficient hold time?		No	
VOC samples have zero headspace?	1755	NC	i Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:	
			·
Corrective Action Taken:			
			<u> </u>
· · · · · · · · · · · · · · · · · · ·			

ſ	Analysis Request and Chain of Custody Record														PAGE: / OF: / ANALYSIS REQUEST																							
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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.