Highlander Environmental Corp.

Midland, Texas

October 28, 2005

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

AP# 30025365140000

Re: Subsurface Investigation for the Chesapeake Energy Corporation, William 14 Federal #1 (Reserve Pit), Located in Unit Letter E, Section 14, Township 15 South, Range 35 East, Lea County New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Chesapeake Energy Corporation (Chesapeake) to investigate an open reserve pit at the William 14 Federal #1 well in Lea County, New Mexico (Site), located in Unit Letter E, Section 14, Township 15 South, Range 35 East. The Site is shown on Figure 1.

Background

The well was recently drilled following the New Mexico Oil Conservation Division (NMOCD) Pit and Below Grade Tank Guidelines, issued November 1, 2004. The reserve pit contents were removed and deep buried onsite. The pit contents were encapsulated with a 12 mil liner and capped with a 20 mil liner. The reserve pit measured approximately 150' x 150'. The C-144 form is enclosed in Appendix A.

To assess soil underneath the liner, Ocotillo Environmental installed five (5) trenches in the reserve pit using a trackhoe on June 13, 2005. Soil samples were collected at selected interval to a depth of 21.0' below ground level for chloride analysis. Some of the trenches did exhibit a chloride impact to the subsurface soils. The vertical extents of the chloride impact were not defined.

Regulatory and Groundwater

According to New Mexico Office of the State Engineer well reports, one well is located in Section 14 with an average depth to groundwater of 48' below surface. A well in Section 13 shows an average groundwater depth of 57' below surface. The groundwater reports are shown 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

incident - nLWJ0606739205

RP# 1192

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

application pPAC0703634542

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 100 mg/kg.

Background Sampling

On June 23, 2005, Highlander personnel inspected the reserve pit and supervised the installation of two (2) background boreholes. The background boreholes were installed southwest and south of the reserve pit, on the well pad. The background boreholes are shown in Figure 2. Soil samples were collected for chloride evaluation at 5.0 foot intervals to a depth of 30.0' below surface. The background results are shown in Table 1. Borehole (BH-1) showed chloride ranging from 17.6 mg/kg (10-11') to 23.1 mg/kg (20-21'). Borehole (BH-2) showed chloride ranging from 18.7 mg/kg (15'-16') to 59.3 mg/kg (30'-31'). The laboratory reports are included in Appendix C.

Assessment/Borehole Installation

To assess the reserve pit, Chesapeake proposed to install boreholes in the reserve pit to confirm and delineate chloride impact in the subsurface soils. A minimum of six (6) boreholes were proposed in the reserve pit for evaluation. The borehole locations are shown in Figure 2.

On August 10 and 11, 2005, Highlander supervised the installation of six (6) boreholes in the reserve pit. An air rotary drilling rig was used to collect soil samples. Samples were taken in five (5) foot intervals and inspected for lithologic characteristics. The boreholes were advanced to a depth of (40) feet below pit bottom.

All downhole equipment (i.e., drill rods, drill bits, etc.) was thoroughly decontaminated between each borehole with a high-pressure hot water wash and rinse. Once the boreholes were completed, the boreholes were grouted to surface.

Soil Sampling and Analysis

The samples collected were preserved in laboratory prepared sample containers with standard QA/QC procedures. All samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. Selected soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO, Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method SW 846 5030/8021B and chloride by method SW846-9253.

Referring to Table 2, the TPH and BTEX analysis did not show any concentration above the reporting limit. As shown in Table 3, the subsurface soils did show chloride impact in the bottom of the reserve pit. Boreholes (BH-1, BH-2 and BH-3) showed chloride concentrations decreasing with depth in the upper soils (0-20') and increasing with depth in the deeper soils. BH-1, BH-2 and BH-3 bottom samples (40'-41') showed chloride concentrations of 1,790 mg/kg, 1,770 mg/kg and 5,010 mg/kg, respectively. The remaining boreholes BH-4, BH-5 and BH-6 showed chloride concentrations declining with depth to 12.1 mg/kg (40'), 60.2 mg/kg (40') and 11.1 mg/kg (40'), respectively.

If you require any additional information, or have any comments concerning the assessment report, please call.

Respectfully submitted,
Highlander Environmental Corp.

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

cc: Brad Blevins - Chesapeake

SITE INFORMATION

Type of Report: Assessment Report

Report Date: October 28, 2005

Site:	**William 14 Federal #1**
Company:	**Chesapeake Energy Corporation**
Section, Township and Range	**Section 14, T15S, R35E**
Unit Letter:	**E**
Lease Number - API #:	**30-025-36514**
County:	**Lea**
GPS:	**33° 01' 10.5", 103° 23' 04.3"**
Surface Owner:	Private
Mineral Owner:	Federal
Directions:	From intersection of 82 and Ave D (loop road) west of Lovington NM., go 1.5 miles north
	on loop road to T, turn right (east) and go 0.9 miles on Gum Street, turn left (north) on
	3rd street and go 2.9 miles, turn left (west) on Stansell road and go 4.9 miles, turn right
	north into lease road, go through gate and go 0.6 miles to tank battery

Date Released:	New Drill Well
Type Release:	produce water
Source of Contamination:	reserve pit
Fluid Released:	unknown
Fluids Recovered:	-

Name:	Brad Blevins		Ike Tavarez
Company:	Chesapeake Energy Corporation		Highlander Environmental Corp.
Address:	5014 Carlsbad Hwy. Hobbs, NM 88240		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(505) 391-1462		(432) 692- 4559
Fax:	(505) 391-6679		
Email:	bblevins@chkenergy.com		itavarez@hec-enviro.com

Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	**20**	<50'
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***	*None*

Surface Body of Water:	***Ranking Score***	***Site Data***
<200 ft.	*20*	*None*
200 ft - 1,000 ft.	10	*None*
>1,000 ft.	**0**	*None*

Total Ranking Score:	**20**

Benzene	*Total BTEX*	*TPH*
10	50	100

FIGURES

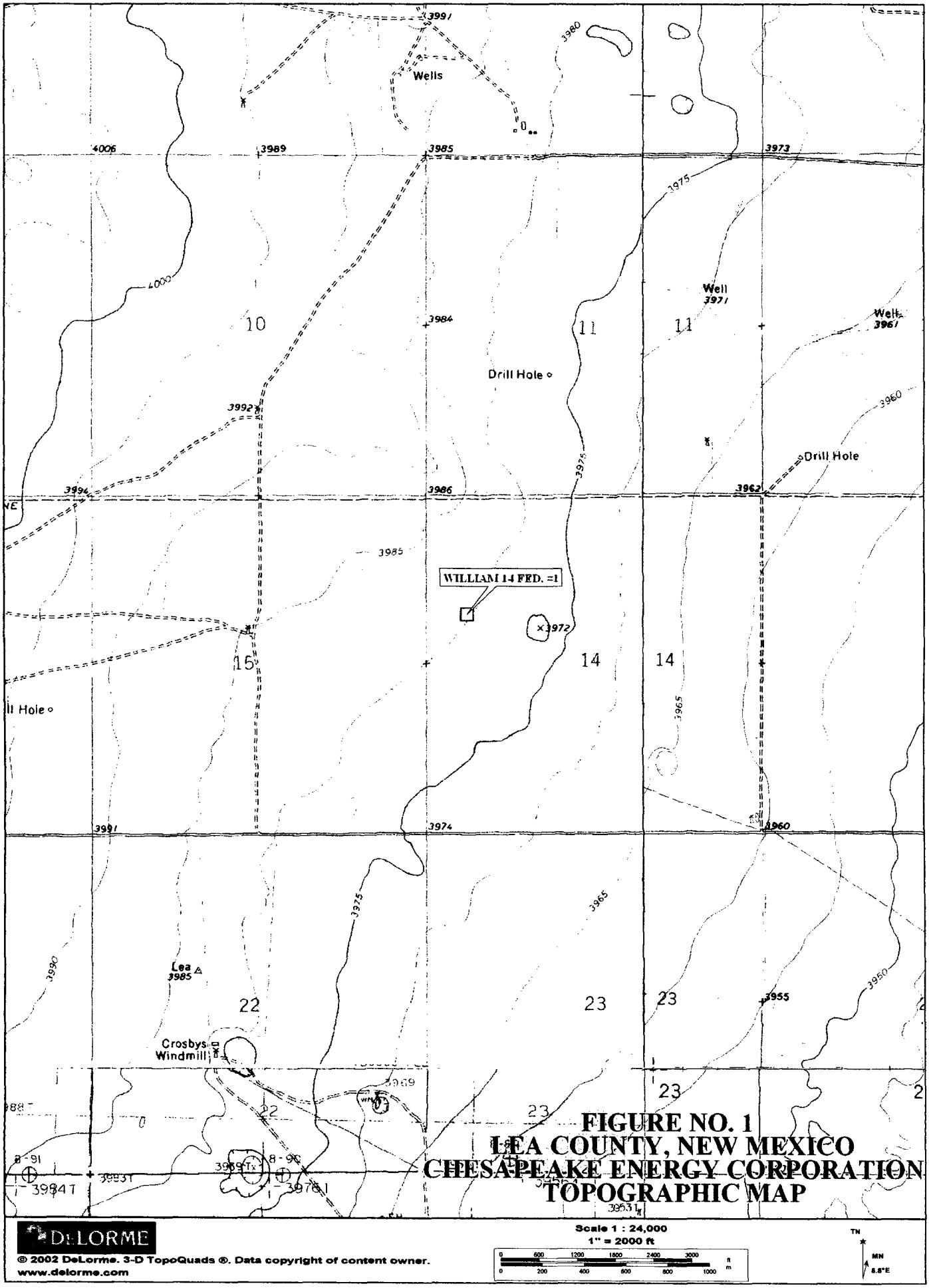

FIGURE NO. 1
LEA COUNTY, NEW MEXICO
CHESAPEAKE ENERGY CORPORATION
TOPOGRAPHIC MAP

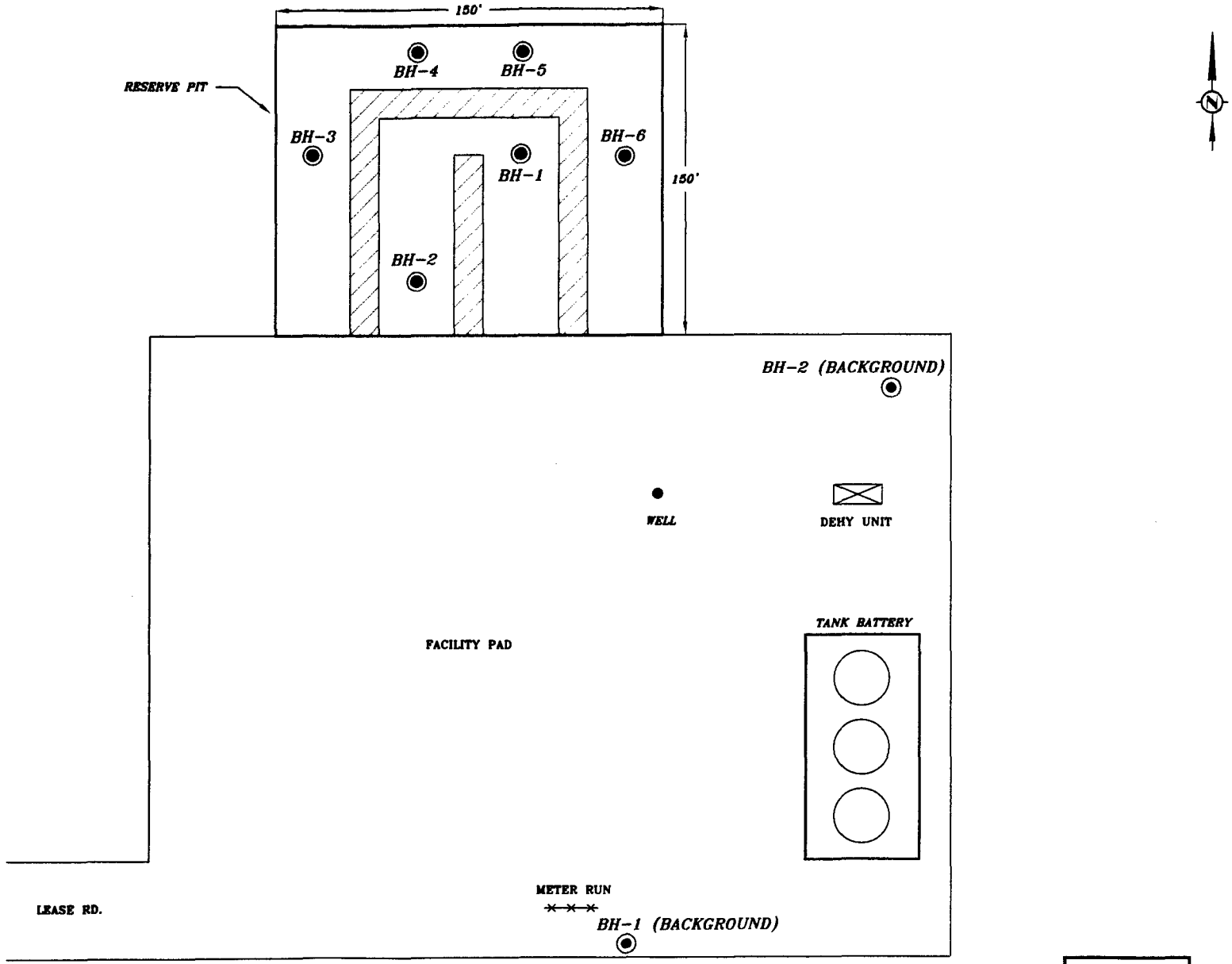

FIGURE NO. 2

LEA COUNTY, NEW MEXICO

CHESAPEAKE ENERGY CORPORATION
WILLIAM 14 FEDERAL #1

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 7/6/05
DWN. BY: JJ
FILE: C:\CHESAPEAKE\2413\WILLIAM 14 FED #1

NOT TO SCALE

◉ BOREHOLE LOCATIONS

TABLES

Table 1

Chesapeake/Williams 14 Federal #1

Lea County, New Mexico

Background Sampling

Sample ID	Date Sampled	Sample Depth (ft)	Chloride (mg/kg)
BH-1, BG	6/23/2005	3-4	21.2
BH-1, BG	6/23/2005	5-6	20.0
BH-1, BG	6/23/2005	10-11	17.6
BH-1, BG	6/23/2005	15-16	20.5
BH-1, BG	6/23/2005	20-21	23.1
BH-1, BG	6/23/2005	25-26	20.0
BH-1, BG	6/23/2005	30-31	18.8
BH-2, BG	6/23/2005	3-4	45.9
BH-2, BG	6/23/2005	5-6	47.2
BH-2, BG	6/23/2005	10-11	41.0
BH-2, BG	6/23/2005	15-16	18.7
BH-2, BG	6/23/2005	20-21	42.7
BH-2, BG	6/23/2005	25-26	28.5
BH-2, BG	6/23/2005	30-31	59.3

Table 2
Chesapeake/Williams 14 Federal #1
Lea County, New Mexico
TPH and BTEX Analysis

Sample ID	Date Sampled	Sample Depth (ft), BPB	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)
			C6-C12	C12-C35	Total				
BH-1	8/10/2005	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH-2	8/10/2005	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH-3	8/10/2005	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH-4	8/11/2005	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025
BH-5	8/11/2005	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025

BPB - Below Pit Bottom

Table 3
Chesapeake/Williams 14 Federal #1
Lea County, New Mexico
Boreholes Soil Samples
Sampled on 8/10/05 and 8/11/05

Depth (ft), BPB	Chloride Analysis (mg/kg)					
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6
0-1	2260	4540	775	3430	4410	832
5-6	3360	794	336	7060	8890	841
10-11	4620	2530	524	1970	6510	429
15-16	3100	1060	451	1620	3550	113
20-21	1110	529	561	44.5	2360	14.3
25-26	1220	795	691	14.8	2090	8.76
30-31	797	603	1010	12.3	901	12.1
35-36	788	1220	2310	12.4	197	57.9
40-41	1790	1770	5010	12.1	60.2	11.1

BPB - Below Pit Bottom

APPENDIX A

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-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe Office.

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes-☐ No-☒
Type of action: Registration of a pit or below-grade tank-☒ Closure of a pit or below-grade tank-☒

Operator: Chesapeake Energy Corp. Telephone: 505-391-1426 x 21 e-mail address: sserna@chkenergy.com
Address: 5014 Carlsbad Hwy., Hobbs, NM 88240
Facility or well name: William 14 Fed. #1 API #: 30-025-36514 U/L or Qtr/Qtr _____ Sec 14 T 15S R 35E
County: Lea County Latitude N33° 01' 10.5" Longitude W103° 23' 04.3" NAD: 1927-☐ 1983-☐
Surface Owner: Federal-☐ State-☐ Private-☒ Indian-☐

Pit	**Below-grade tank**
Type: Drilling-☒ Production-☐ Disposal-☐	Volume: _____ bbl Type of fluid: _____
Workover-☐ Emergency-☐	Construction material: _____
Lined-☒ Unlined-☐	Double-walled, with leak detection? Yes-☐ If not, explain why not.
Liner type: Synthetic-☒ Thickness 12 mil Clay-☐	
Pit Volume _____ bbl	

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water).	Less than 50 feet	(20 points)	☒
	50 feet or more, but less than 100 feet	(10 points)	☐
	100 feet or more	(0 points)	☐
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)	☐
	No	(0 points)	☒
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.	Less than 200 feet	(20 points)	☐
	200 feet or more, but less than 1000 feet	(10 points)	☐
	1000 feet or more	(0 points)	☒
	Ranking Score (Total Points)	**20 points**	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: **Chesapeake proposes the construction of an onsite pit for deep burial (see diagram). All drilling material will be blended with soil-like material to stabilize for burial. Material will be encapsulated with a 12 mil liner (including a 4 oz woven geo-textile felt) and caped by a 20 mil liner.**
3' of soil like material will cover cap to grade. Site will be returned to as near original condition as possible.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been / will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**
Date: _____
Printed Name / Title _____ Signature _____

Your certification and NMOCD approval of this application / closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and / or regulations.

Approval:
Printed Name / Title _____ Signature _____ Date _____

APPENDIX B

Water Well - Average Depth to Groundwater

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

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

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

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

15 South 35 East

6 58	5 65	4	3 60	2	1 50
7 60	8	9	10	11	12 54
18	17	16 65	15	14 48 **SITE**	13 57
19 58	20	21	22 55	23	24
30 60	29	28 63	27 52	26	25 59
31 69	32 68	33 59	34 55	35 58	36 71

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

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

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

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

150 **Average depth to groundwater (ft) - State Engineer Well Reports**

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 15S Range: 35E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 10/14/2005

							(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	15S	35E	01				3	44	55	50
L	15S	35E	03				2	45	75	60
L	15S	35E	05				1	65	65	65
L	15S	35E	06				1	58	58	58
L	15S	35E	07				6	54	75	60
L	15S	35E	12				4	50	58	54
L	15S	35E	13				4	50	60	57
L	15S	35E	14				1	48	48	48
L	15S	35E	16				1	65	65	65
L	15S	35E	19				2	56	60	58
L	15S	35E	22				2	55	55	55
L	15S	35E	25				7	52	63	59
L	15S	35E	27				3	46	56	52
L	15S	35E	28				3	55	70	63
L	15S	35E	30				1	60	60	60
L	15S	35E	31				4	65	73	69
L	15S	35E	32				3	65	70	68
L	15S	35E	33				7	50	69	59
L	15S	35E	34				2	54	55	55
L	15S	35E	35				14	45	70	58
L	15S	35E	36				11	50	120	71

Record Count: 82

APPENDIX C

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Chesapeake/ William 14 Fed #1

Project Number: 2413

Location: Lea County, NM

Lab Order Number: 5F23009

Report Date: 06/29/05

Highlander Environmental Corp.	Project: Chesapeake/ William 14 Fed #1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2413	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	06/29/05 13:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (3-4'), BG	5F23009-01	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (5-6'), BG	5F23009-02	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (10-11'), BG	5F23009-03	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (15-16'), BG	5F23009-04	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (20-21'), BG	5F23009-05	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (25-26'), BG	5F23009-06	Soil	06/23/05 00:00	06/23/05 16:20
BH-1 (30-31'), BG	5F23009-07	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (3-4'), BG	5F23009-08	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (5-6'), BG	5F23009-09	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (10-11'), BG	5F23009-10	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (15-16'), BG	5F23009-11	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (20-21'), BG	5F23009-12	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (25-26'), BG	5F23009-13	Soil	06/23/05 00:00	06/23/05 16:20
BH-2 (30-31'), BG	5F23009-14	Soil	06/23/05 00:00	06/23/05 16:20

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

Highlander Environmental Corp.	Project: Chesapeake/ William 14 Fed #1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2413	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	06/29/05 13:13

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (3-4'), BG (5F23009-01) Soil									
Chloride	**21.2**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (5-6'), BG (5F23009-02) Soil									
Chloride	**20.0**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (10-11'), BG (5F23009-03) Soil									
Chloride	**17.6**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (15-16'), BG (5F23009-04) Soil									
Chloride	**20.5**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (20-21'), BG (5F23009-05) Soil									
Chloride	**23.1**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (25-26'), BG (5F23009-06) Soil									
Chloride	**20.0**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-1 (30-31'), BG (5F23009-07) Soil									
Chloride	**18.8**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (3-4'), BG (5F23009-08) Soil									
Chloride	**45.9**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (5-6'), BG (5F23009-09) Soil									
Chloride	**47.2**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (10-11'), BG (5F23009-10) Soil									
Chloride	**41.0**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (15-16'), BG (5F23009-11) Soil									
Chloride	**18.7**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	

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

Highlander Environmental Corp.	Project: Chesapeake/ William 14 Fed #1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2413	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	06/29/05 13:13

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (20-21'), BG (5F23009-12) Soil									
Chloride	**42.7**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (25-26'), BG (5F23009-13) Soil									
Chloride	**28.5**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	
BH-2 (30-31'), BG (5F23009-14) Soil									
Chloride	**59.3**	5.00	mg/kg	10	EF52809	06/27/05	06/27/05	EPA 300.0	

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

Highlander Environmental Corp.	Project: Chesapeake/ William 14 Fed #1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2413	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	06/29/05 13:13

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 EF52809 - Water Extraction										
Blank (EF52809-BLK1)				Prepared & Analyzed: 06/27/05						
Chloride	ND	0.500	mg/kg							
LCS (EF52809-BS1)				Prepared & Analyzed: 06/27/05						
Chloride	11.0		mg/L	10.0		110	80-120			
Calibration Check (EF52809-CCV1)				Prepared & Analyzed: 06/27/05						
Chloride	11.2		mg/L	10.0		112	80-120			
Duplicate (EF52809-DUP1)		**Source: 5F23005-01**		Prepared & Analyzed: 06/27/05						
Chloride	55.6	5.00	mg/kg		57.4			3.19	20	

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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
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 6/29/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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: 2

CLIENT NAME: Chesapeake

SITE MANAGER: IKE Tavarez

PROJECT NO: 2413

PROJECT NAME: Chesapeake/Willow 14 Fed #1 Lea Co. NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	# CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD	SAMPLE IDENTIFICATION
5F23009-01	6/23/05		S	1		ICE	BH-1 (3-4'), BG
02			S	1		ICE	BH-1 (5-6'), BG
03			S	1		ICE	BH-1 (10-11'), BG
04			S	1		ICE	BH-1 (15-16'), BG
05			S	1		ICE	BH-1 (20-21'), BG
06			S	1		ICE	BH-1 (25-26'), BG
07			S	1		ICE	BH-1 (30-31'), BG
08			S	1		ICE	BH-2 (3-4'), BG
09			S	1		ICE	BH-2 (5-6'), BG
10			S	1		ICE	BH-2 (10-11'), BG

ANALYSIS REQUEST (Circle or Specify Method No.)

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 Pb 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, Chlorides | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos)

													X			
													X			
													X			
													X			
													X			
													X			
													X			
													X			
													X			
													X			

RELINQUISHED BY: (Signature) — Date: 6/23/05 Time: 4:20

RECEIVED BY: (Signature) — Date: Time:

SAMPLED BY: (Print & Sign) IKE Tavarez — 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:

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Xenco

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Carla Tolle

DATE: 6/23/05 TIME: 16:20

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 402 jar Soil Hold 14.0°C

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.

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: 2 OF: 2

CLIENT NAME: Chesapeake
SITE MANAGER: Ike Tavarez
PROJECT NO.: 2413
PROJECT NAME: Chesapeake / William 14 Fed. #1, Lea Co. NM.

ANALYSIS REQUEST (Circle or Specify Method No.): 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 (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	Chloride
5F23009-01	6/23/05		S			BH-2 (15-16), BG	1				✓		X
-02	6/23/05		S			BH-2 (20-21) BG	1				✓		X
-03	6/23/05		S			BH-2 (25-26), BG	1				✓		X
-04	6/23/05		S			BH-2 (30-31) BG	1				✓		X

RELINQUISHED BY: (Signature) [signature] Date: 6/23/05 Time: 4:20
RECEIVED BY: (Signature) Date: Time:
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: ECT
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Callie Kelly DATE: 6/23/05 TIME: 16:20

SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:
HIGHLANDER CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other
REMARKS: 4oz jar seal label 1.0°C

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.

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

Client: Highlander

Date/Time: 6/23/05 16:20

Order #: 5F23009

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	14.0 C
Shipping container/cooler in good condition?	(Yes)	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?	(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)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	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?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:
Samples were slightly warm; however, samples were on ice and recently sampled.

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Chesapeake/ William 14 Fed #1

Project Number: 2413

Location: Lea County, NM

Lab Order Number: 5H15018

Report Date: 08/19/05

Highlander Environmental Corp.	Project: Chesapeake/ William 14 Fed #1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2413	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	08/19/05 09:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 0-1, BPB	5H15018-01	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 5-6, BPB	5H15018-02	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 10-11, BPB	5H15018-03	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 15-16, BPB	5H15018-04	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 20-21, BPB	5H15018-05	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 25-26, BPB	5H15018-06	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 30-31, BPB	5H15018-07	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 35-36, BPB	5H15018-08	Soil	08/10/05 00:00	08/15/05 15:00
BH-1 40-41, BPB	5H15018-09	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 0-1, BPB	5H15018-10	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 5-6, BPB	5H15018-11	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 10-11, BPB	5H15018-12	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 15-16, BPB	5H15018-13	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 20-21, BPB	5H15018-14	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 25-26, BPB	5H15018-15	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 30-31, BPB	5H15018-16	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 35-36, BPB	5H15018-17	Soil	08/10/05 00:00	08/15/05 15:00
BH-2 40-41, BPB	5H15018-18	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 0-1, BPB	5H15018-19	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 5-6, BPB	5H15018-20	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 10-11, BPB	5H15018-21	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 15-16, BPB	5H15018-22	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 20-21, BPB	5H15018-23	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 25-26, BPB	5H15018-24	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 30-31, BPB	5H15018-25	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 35-36, BPB	5H15018-26	Soil	08/10/05 00:00	08/15/05 15:00
BH-3 40-41, BPB	5H15018-27	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 0-1, BPB	5H15018-28	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 5-6, BPB	5H15018-29	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 10-11, BPB	5H15018-30	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 15-16, BPB	5H15018-31	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 20-21, BPB	5H15018-32	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 25-26, BPB	5H15018-33	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 30-31, BPB	5H15018-34	Soil	08/10/05 00:00	08/15/05 15:00

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-4 35-36, BPB	5H15018-35	Soil	08/10/05 00:00	08/15/05 15:00
BH-4 40-41, BPB	5H15018-36	Soil	08/10/05 00:00	08/15/05 15:00
BH-5 0-1, BPB	5H15018-37	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 5-6, BPB	5H15018-38	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 10-11, BPB	5H15018-39	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 15-16, BPB	5H15018-40	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 20-21, BPB	5H15018-41	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 25-26, BPB	5H15018-42	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 30-31, BPB	5H15018-43	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 35-36, BPB	5H15018-44	Soil	08/11/05 00:00	08/15/05 15:00
BH-5 40-41, BPB	5H15018-45	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 0-1, BPB	5H15018-46	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 5-6, BPB	5H15018-47	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 10-11, BPB	5H15018-48	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 15-16, BPB	5H15018-49	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 20-21, BPB	5H15018-50	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 25-26, BPB	5H15018-51	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 30-31, BPB	5H15018-52	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 35-36, BPB	5H15018-53	Soil	08/11/05 00:00	08/15/05 15:00
BH-6 40-41, BPB	5H15018-54	Soil	08/11/05 00:00	08/15/05 15:00

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 0-1, BPB (5H15018-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
BH-2 0-1, BPB (5H15018-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
BH-3 0-1, BPB (5H15018-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 0-1, BPB (5H15018-19) Soil									
Surrogate: 1-Chlorooctane		*88.4 %*	*70-130*		*EH51503*	*08/15/05*	*08/16/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
BH-4 0-1, BPB (5H15018-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*114 %*	*70-130*		"	"	"	"	
BH-5 0-1, BPB (5H15018-37) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 0-1, BPB (5H15018-46) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH51802	08/17/05	08/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH51503	08/15/05	08/16/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 0-1, BPB (5H15018-01) Soil									
Chloride	**2260**	25.0	mg/kg	50	EH51807	08/17/05	08/17/05	EPA 300.0	
% Moisture	**5.1**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	
BH-1 5-6, BPB (5H15018-02) Soil									
Chloride	**3360**	50.0	mg/kg	100	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 10-11, BPB (5H15018-03) Soil									
Chloride	**4620**	50.0	mg/kg	100	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 15-16, BPB (5H15018-04) Soil									
Chloride	**3100**	25.0	mg/kg	50	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 20-21, BPB (5H15018-05) Soil									
Chloride	**1110**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 25-26, BPB (5H15018-06) Soil									
Chloride	**1220**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 30-31, BPB (5H15018-07) Soil									
Chloride	**797**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 35-36, BPB (5H15018-08) Soil									
Chloride	**788**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-1 40-41, BPB (5H15018-09) Soil									
Chloride	**1790**	25.0	mg/kg	50	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 0-1, BPB (5H15018-10) Soil									
Chloride	**4540**	50.0	mg/kg	100	EH51807	08/17/05	08/17/05	EPA 300.0	
% Moisture	**8.4**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 5-6, BPB (5H15018-11) Soil									
Chloride	**794**	10.0	mg/kg	20	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 10-11, BPB (5H15018-12) Soil									
Chloride	**2530**	25.0	mg/kg	50	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 15-16, BPB (5H15018-13) Soil									
Chloride	**1060**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 20-21, BPB (5H15018-14) Soil									
Chloride	**529**	10.0	mg/kg	20	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 25-26, BPB (5H15018-15) Soil									
Chloride	**795**	10.0	mg/kg	20	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 30-31, BPB (5H15018-16) Soil									
Chloride	**603**	10.0	mg/kg	20	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 35-36, BPB (5H15018-17) Soil									
Chloride	**1220**	20.0	mg/kg	40	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-2 40-41, BPB (5H15018-18) Soil									
Chloride	**1770**	25.0	mg/kg	50	EH51807	08/17/05	08/17/05	EPA 300.0	
BH-3 0-1, BPB (5H15018-19) Soil									
Chloride	**775**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	
% Moisture	**5.2**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	
BH-3 5-6, BPB (5H15018-20) Soil									
Chloride	**336**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 10-11, BPB (5H15018-21) Soil									
Chloride	**524**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 15-16, BPB (5H15018-22) Soil									
Chloride	**451**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 20-21, BPB (5H15018-23) Soil									
Chloride	**561**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 25-26, BPB (5H15018-24) Soil									
Chloride	**691**	10.0	mg/kg	20	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 30-31, BPB (5H15018-25) Soil									
Chloride	**1010**	20.0	mg/kg	40	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 35-36, BPB (5H15018-26) Soil									
Chloride	**2310**	25.0	mg/kg	50	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-3 40-41, BPB (5H15018-27) Soil									
Chloride	**5010**	100	mg/kg	200	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 0-1, BPB (5H15018-28) Soil									
Chloride	**3430**	50.0	mg/kg	100	EH51808	08/18/05	08/18/05	EPA 300.0	
% Moisture	**4.5**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	
BH-4 5-6, BPB (5H15018-29) Soil									
Chloride	**7060**	100	mg/kg	200	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 10-11, BPB (5H15018-30) Soil									
Chloride	**1970**	25.0	mg/kg	50	EH51808	08/18/05	08/18/05	EPA 300.0	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 15-16, BPB (5H15018-31) Soil									
Chloride	**1620**	25.0	mg/kg	50	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 20-21, BPB (5H15018-32) Soil									
Chloride	**44.5**	5.00	mg/kg	10	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 25-26, BPB (5H15018-33) Soil									
Chloride	**14.8**	5.00	mg/kg	10	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 30-31, BPB (5H15018-34) Soil									
Chloride	**12.3**	5.00	mg/kg	10	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 35-36, BPB (5H15018-35) Soil									
Chloride	**12.4**	5.00	mg/kg	10	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-4 40-41, BPB (5H15018-36) Soil									
Chloride	**12.1**	5.00	mg/kg	10	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-5 0-1, BPB (5H15018-37) Soil									
Chloride	**4410**	50.0	mg/kg	100	EH51808	08/18/05	08/18/05	EPA 300.0	
% Moisture	**6.4**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	
BH-5 5-6, BPB (5H15018-38) Soil									
Chloride	**8890**	100	mg/kg	200	EH51808	08/18/05	08/18/05	EPA 300.0	
BH-5 10-11, BPB (5H15018-39) Soil									
Chloride	**6510**	100	mg/kg	200	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-5 15-16, BPB (5H15018-40) Soil									
Chloride	**3550**	50.0	mg/kg	100	EH51904	08/18/05	08/18/05	EPA 300.0	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-5 20-21, BPB (5H15018-41) Soil									
Chloride	**2360**	25.0	mg/kg	50	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-5 25-26, BPB (5H15018-42) Soil									
Chloride	**2090**	25.0	mg/kg	50	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-5 30-31, BPB (5H15018-43) Soil									
Chloride	**901**	10.0	mg/kg	20	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-5 35-36, BPB (5H15018-44) Soil									
Chloride	**197**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-5 40-41, BPB (5H15018-45) Soil									
Chloride	**60.2**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 0-1, BPB (5H15018-46) Soil									
Chloride	**832**	10.0	mg/kg	20	EH51904	08/18/05	08/18/05	EPA 300.0	
% Moisture	**5.7**	0.1	%	1	EH51601	08/16/05	08/16/05	% calculation	
BH-6 5-6, BPB (5H15018-47) Soil									
Chloride	**841**	10.0	mg/kg	20	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 10-11, BPB (5H15018-48) Soil									
Chloride	**429**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 15-16, BPB (5H15018-49) Soil									
Chloride	**113**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 20-21, BPB (5H15018-50) Soil									
Chloride	**14.3**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 25-26, BPB (5H15018-51) Soil									
Chloride	**8.76**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 30-31, BPB (5H15018-52) Soil									
Chloride	**12.1**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 35-36, BPB (5H15018-53) Soil									
Chloride	**57.9**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	
BH-6 40-41, BPB (5H15018-54) Soil									
Chloride	**11.1**	5.00	mg/kg	10	EH51904	08/18/05	08/18/05	EPA 300.0	

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 EH51503 - Solvent Extraction (GC)										
Blank (EH51503-BLK1)				Prepared: 08/15/05 Analyzed: 08/16/05						
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	*50.8*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.0*		*"*	*50.0*		*114*	*70-130*			
LCS (EH51503-BS1)				Prepared & Analyzed: 08/15/05						
Gasoline Range Organics C6-C12	445	10.0	mg/kg wet	500		89.0	75-125			
Diesel Range Organics >C12-C35	443	10.0	"	500		88.6	75-125			
Total Hydrocarbon C6-C35	888	10.0	"	1000		88.8	75-125			
Surrogate: 1-Chlorooctane	*52.5*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.5*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (EH51503-CCV1)				Prepared: 08/15/05 Analyzed: 08/16/05						
Gasoline Range Organics C6-C12	451		mg/kg	500		90.2	80-120			
Diesel Range Organics >C12-C35	459		"	500		91.8	80-120			
Total Hydrocarbon C6-C35	910		"	1000		91.0	80-120			
Surrogate: 1-Chlorooctane	*52.0*		*"*	*50.0*		*104*	*0-200*			
Surrogate: 1-Chlorooctadecane	*55.8*		*"*	*50.0*		*112*	*0-200*			
Matrix Spike (EH51503-MS1)	**Source: 5H15004-03**			Prepared: 08/15/05 Analyzed: 08/16/05						
Gasoline Range Organics C6-C12	454	10.0	mg/kg dry	535	ND	84.9	75-125			
Diesel Range Organics >C12-C35	448	10.0	"	535	ND	83.7	75-125			
Total Hydrocarbon C6-C35	902	10.0	"	1070	ND	84.3	75-125			
Surrogate: 1-Chlorooctane	*48.2*		*mg/kg*	*50.0*		*96.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.9*		*"*	*50.0*		*112*	*70-130*			
Matrix Spike Dup (EH51503-MSD1)	**Source: 5H15004-03**			Prepared: 08/15/05 Analyzed: 08/16/05						
Gasoline Range Organics C6-C12	442	10.0	mg/kg dry	535	ND	82.6	75-125	2.68	20	
Diesel Range Organics >C12-C35	469	10.0	"	535	ND	87.7	75-125	4.58	20	
Total Hydrocarbon C6-C35	911	10.0	"	1070	ND	85.1	75-125	0.993	20	
Surrogate: 1-Chlorooctane	*48.3*		*mg/kg*	*50.0*		*96.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.1*		*"*	*50.0*		*108*	*70-130*			

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 EH51802 - EPA 5030C (GC)										
Blank (EH51802-BLK1)				Prepared: 08/17/05 Analyzed: 08/18/05						
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	*105*		*ug/kg*	*100*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.1*		"	*100*		*98.1*	*80-120*			
LCS (EH51802-BS1)				Prepared & Analyzed: 08/17/05						
Benzene	100		ug/kg	100		100	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	119		"	100		119	80-120			
Xylene (p/m)	230		"	200		115	80-120			
Xylene (o)	118		"	100		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*101*		"	*100*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*117*		"	*100*		*117*	*80-120*			
Calibration Check (EH51802-CCV1)				Prepared: 08/17/05 Analyzed: 08/18/05						
Benzene	90.0		ug/kg	100		90.0	80-120			
Toluene	88.8		"	100		88.8	80-120			
Ethylbenzene	97.7		"	100		97.7	80-120			
Xylene (p/m)	188		"	200		94.0	80-120			
Xylene (o)	100		"	100		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*86.2*		"	*100*		*86.2*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*92.1*		"	*100*		*92.1*	*0-200*			
Matrix Spike (EH51802-MS1)	**Source: 5H16001-14**			Prepared: 08/17/05 Analyzed: 08/18/05						
Benzene	100		ug/kg	100	ND	100	80-120			
Toluene	100		"	100	ND	100	80-120			
Ethylbenzene	115		"	100	ND	115	80-120			
Xylene (p/m)	221		"	200	ND	110	80-120			
Xylene (o)	116		"	100	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*91.7*		"	*100*		*91.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		"	*100*		*114*	*80-120*			

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 EH51802 - EPA 5030C (GC)										
Matrix Spike Dup (EH51802-MSD1)	**Source: 5H16001-14**			Prepared: 08/17/05 Analyzed: 08/18/05						
Benzene	93.5		ug/kg	100	ND	93.5	80-120	6.72	20	
Toluene	93.6		"	100	ND	93.6	80-120	6.61	20	
Ethylbenzene	102		"	100	ND	102	80-120	12.0	20	
Xylene (p/m)	196		"	200	ND	98.0	80-120	11.5	20	
Xylene (o)	101		"	100	ND	101	80-120	13.8	20	
Surrogate: a,a,a-Trifluorotoluene	*84.4*		"	*100*		*84.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*96.0*		"	*100*		*96.0*	*80-120*			

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 EH51601 - General Preparation (Prep)										
Blank (EH51601-BLK1)				Prepared & Analyzed: 08/16/05						
% Solids	100		%							
Duplicate (EH51601-DUP1)		**Source: 5H15018-01**		Prepared & Analyzed: 08/16/05						
% Solids	95.0		%		94.9			0.105	20	
Batch EH51807 - Water Extraction										
Blank (EH51807-BLK1)				Prepared & Analyzed: 08/17/05						
Chloride	ND	0.500	mg/kg							
LCS (EH51807-BS1)				Prepared & Analyzed: 08/17/05						
Chloride	8.47		mg/L	10.0		84.7	80-120			
Calibration Check (EH51807-CCV1)				Prepared & Analyzed: 08/17/05						
Chloride	8.72		mg/L	10.0		87.2	80-120			
Duplicate (EH51807-DUP1)		**Source: 5H15017-01**		Prepared & Analyzed: 08/17/05						
Chloride	22.3	5.00	mg/kg		19.3			14.4	20	
Batch EH51808 - Water Extraction										
Blank (EH51808-BLK1)				Prepared & Analyzed: 08/18/05						
Chloride	ND	0.500	mg/kg							
LCS (EH51808-BS1)				Prepared & Analyzed: 08/18/05						
Chloride	8.61		mg/L	10.0		86.1	80-120			

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 EH51808 - Water Extraction										
Calibration Check (EH51808-CCV1)				Prepared & Analyzed: 08/18/05						
Chloride	8.76		mg/L	10.0		87.6	80-120			
Duplicate (EH51808-DUP1)		Source: 5H15018-19		Prepared & Analyzed: 08/18/05						
Chloride	788	10.0	mg/kg		775			1.66	20	
Batch EH51904 - Water Extraction										
Blank (EH51904-BLK1)				Prepared & Analyzed: 08/18/05						
Chloride	ND	0.500	mg/kg							
LCS (EH51904-BS1)				Prepared & Analyzed: 08/18/05						
Chloride	8.68		mg/L	10.0		86.8	80-120			
Calibration Check (EH51904-CCV1)				Prepared & Analyzed: 08/18/05						
Chloride	8.69		mg/L	10.0		86.9	80-120			
Duplicate (EH51904-DUP1)		Source: 5H15018-39		Prepared & Analyzed: 08/18/05						
Chloride	6480	100	mg/kg		6510			0.462	20	

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
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-19-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

Client: Highlander

Date/Time: 8/15/05 15:00

Order #: 5H150

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0 C
Shipping container/cooler in good condition?	~~Yes~~	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?	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)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	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?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

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Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

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_____

_____

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_____

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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

CLIENT NAME: Chesapeake
SITE MANAGER: IKE Tavarez
PROJECT NO.: 2413
PROJECT NAME: Chesapeake / William 14 Fed. #1 Lea Co. NM.

ANALYSIS REQUEST (Circle or Specify Method No.)

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)
01	9/10/05		S		X	BH-1 0-1, BPB	1				X		X		X											X			
02			S		X	BH-1 5-6, BPB	1				X															X			
03			S		X	BH-1 10-11, BPB	1				X															X			
04			S		X	BH-1 15-16, BPB	1				X															X			
05			S		X	BH-1 20-21, BPB	1				X															X			
06			S		X	BH-1 25-26, BPB	1				X															X			
07			S		X	BH-1 30-31, BPB	1				X															X			
08			S		X	BH-1 35-36, BPB	1				X															X			
09			S		X	BH-1 40-41, BPB	1				X															X			

5H150188

RELINQUISHED BY: (Signature) Date: 9-15-05 Time: 3:00
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Sign) IKE Tavarez 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: ELT
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Robert Kelly
DATE: 9/15/05 TIME: 3:00

HIGHLANDER CONTACT PERSON: IKE Tavarez
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 2.0°C 4oz jar

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.

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

CLIENT NAME: Chesapeake | SITE MANAGER: Ike Tavarez

PROJECT NO.: 2413 | PROJECT NAME: Chesapeake / William 14 Fed #1 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 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. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
5H15018-10	8/10/05		S		X	BH-2 0-1, BPB	1				X		X		X											X			
-11	↓		S		X	BH-2 5-6, BPB	1				X															X			
-12			S		X	BH-2 10-11, BPB	1				X															X			
-13			S		X	BH-2 15-16, BPB	1				X															X			
-14			S		X	BH-2 20-21, BPB	1				X															X			
-15			S		X	BH-2 25-26, BPB	1				X															X			
-16			S		X	BH-2 30-31, BPB	1				X															X			
-17			S		X	BH-2 35-36, BPB	1				X															X			
-18	↓		S		X	BH-2 40-41, BPB	1				X															X			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 8-15-05 Time: 3:00 | RECEIVED BY: (Signature) Date: Time:

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

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

SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Environmental Lab of Texas
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: 8/15/05 TIME: 3:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 20 °C 4oz

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.

Analysis Request and Chain of Custody Record

PAGE: 3 OF: 6

HIGHLANDER ENVIRONMENTAL CORP.

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

CLIENT NAME: Chesapeake
SITE MANAGER: Ike Tavarez
PROJECT NO.: 2413
PROJECT NAME: Chesapeake / William 14 Fed #1
Lea County, NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER 5HH5018	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)
-19	8/10/05		S		X	BH-3 0-1, BPB	1				X		X		X											X			
-20	↓		S		X	BH-3 5-6, BPB	1				X															X			
-21	↓		S		X	BH-3 10-11, BPB	1				X															X			
-22	↓		S		X	BH-3 15-16, BPB	1				X															X			
-23	↓		S		X	BH-3 20-21, BPB	1				X															X			
-24	↓		S		X	BH-3 25-26, BPB	1				X															X			
-25	↓		S		X	BH-3 30-31, BPB	1				X															X			
-26	↓		S		X	BH-3 35-36, BPB	1				X															X			
-27	↓		S		X	BH-3 40-41, BPB	1				X															X			

RELINQUISHED BY: (Signature) [signature] Date: 8-15-05 Time: 2:00
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

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

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

RECEIVING LABORATORY: Environmental Lab of Texas
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) [signature]
DATE: 8/15/05 TIME: 3:00
HIGHLANDER CONTACT PERSON: Ike Tavarez
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
MATRIX: W-Water A-Air SD-Solid (S-Soil) SL-Sludge O-Other
REMARKS: 2.0°C 4oz

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.

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

CLIENT NAME: Chesapeake | SITE MANAGER: Ike Tavarez

PROJECT NO.: 2413 | PROJECT NAME: Chesapeake / William 14 Fed #1 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 6015 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. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
5th 150C8																													
-28	8/10/05		S		X	BH-4 0-1, BPB	1				X		Y		X											X			
-29			S		X	BH-4 5-6, BPB	1				X															X			
-30			S		X	BH-4 10-11, BPB	1				X															X			
-31			S		X	BH-4 15-16, BPB	1				X															X			
-32			S		X	BH-4 20-21, BPB	1				X															X			
-33			S		X	BH-4 25-26, BPB	1				X															X			
-34			S		X	BH-4 30-31, BPB	1				X															X			
-35			S		X	BH-4 35-36, BPB	1				X															X			
-36			S		X	BH-4 40-41, BPB	1				X															X			

RELINQUISHED BY: (Signature) Date: 8-15-05 Time: 7:00 | RECEIVED BY: (Signature) Date: Time:

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

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

SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: Environmental Lab of Texas
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Carol Reed
DATE: 8/15/05 TIME: 3:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 2.0 4.02 jw

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.

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

CLIENT NAME: Chesapeake | SITE MANAGER: Ike Tavarez

PROJECT NO.: 2413 | PROJECT NAME: Chesapeake / William 14 Fed #1 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 8020/608	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. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
5H 15018																													
-37	8/11/05		S		X	BH-5 0-1, BPB	1				X		X		X												X			
-38			S		X	BH-5 5-6, BPB	1				X																X			
-39			S		X	BH-5 10-11, BPB	1				X																X			
-40			S		X	BH-5 15-16, BPB	1				X																X			
-41			S		X	BH-5 20-21, BPB	1				X																X			
-42			S		X	BH-5 25-26, BPB	1				X																X			
-43			S		X	BH-5 30-31, BPB	1				X																X			
-44			S		X	BH-5 35-36, BPB	1				X																X			
-45			S		X	BH-5 40-41, BPB	1				X																X			

RELINQUISHED BY: (Signature) Date: 8-15-05 Time: 3:00 | RECEIVED BY: (Signature) Date: Time:

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

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

SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Environmental Lab of Texas | RECEIVED BY: (Signature) Cathe Kelly

ADDRESS:

CITY: Odessa STATE: TX ZIP:

CONTACT: PHONE: DATE: 8/15/05 TIME: 3:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 2.0 4oz

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.

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

CLIENT NAME: Chesapeake | SITE MANAGER: Ike Tavarez

PROJECT NO.: 2413 | PROJECT NAME: Chesapeake / William 14 Fed #1 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
Std 15018												
-46	8/11/05		S		X	BH-6 0-1, BPB	1				X	
-47			S		X	BH-6 5-6, BPB	1				X	
-48			S		X	BH-6 10-11, BPB	1				X	
-49			S		X	BH-6 15-16, BPB	1				X	
-50			S		X	BH-6 20-21, BPB	1				X	
-51			S		X	BH-6 25-26, BPB	1				X	
-52			S		X	BH-6 30-31, BPB	1				X	
-53			S		X	BH-6 35-36, BPB	1				X	
-54			S		X	BH-6 40-41, BPB	1				X	

ANALYSIS REQUEST (Circle or Specify Method No.)

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. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
X		X											X			
													X			
													X			
													X			
													X			
													X			
													X			
													X			
													X			

RELINQUISHED BY: (Signature) Date: 8-15-05 Time: 3:00 | RECEIVED BY: (Signature) Date: Time:

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

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

SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Environmental Lab of Texas
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Carol
DATE: 8/15/05 TIME: 3:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: 20 40 2

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.