Highlander Environmental Corp.

Midland, Texas

RP # 1074

October 11, 2006

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

RE: Assessment and Work Plan for the Southwest Royalties, Inc., Farnsworth Federal B #5 Well, Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Southwest Royalties, Inc. (Southwest) to assess and to remediate the soil impact from a well blow out that occurred at the Farnsworth Federal B #5 Well and the Farnsworth Federal Tank Battery, located in Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico. The well site coordinates are N 32.05586°, W 103.20828°. The State of New Mexico C-141 (Initial) is included in Appendix C. The well and the tank battery location are shown on Figure 1.

Background

On August 23, 2006, the well apparently pressured up and the fluids flowed up the backside of the well. A gas pocket or air bubbles may have caused the connection to blow off the wellhead. At the time of the release, the oil tanks at the tank battery were full and the tanks overflowed. The volume released at the well and the tank battery was unknown. An estimated 125 barrels of oil was recovered at the well and 145 barrels at the tank battery.

The release at the well impacted an area estimated at 2 to 4 acres with the majority of the impact being overspray. At the tank battery, oil was observed on the pad, drive area and out into the pasture. The impacted areas are further discussed in the Assessment and Sample Results Section of the report. The spill locations are shown on Figures 2 and 3.

Application pPAC0628584447

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

Groundwater and Regulatory

The spill areas are located in Section 7, Township 26 South, Range 37 East. The USGS data base reported a depth to water at 196' in Section 7, Township 26 South, Range 37 East. The State of New Mexico Well Reports did not show any water wells in Section 7. However, there were water wells shown in Sections 29 and 35, Township 25 South, Range 37 East with average groundwater depths of approximately 219' to 185' below surface. In addition, published data, from the Geology and Groundwater Conditions in Southern New Mexico, shows wells in Section 2, 12 and 14, Township 26 South, Range 37 East with reported depths of 103', 102' and 100', respectively. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment and Sample Results

Well #5

On August 24 2006, Highlander personnel inspected and sampled the spill areas. At Well #5, the majority of the surface staining was due to overspray northeast of the well. The impacted area where fluids accumulated north of the well measured approximately 85' x 180'. The impacted areas are shown on Figure 2. A total of four (4) auger holes were installed in this area to assess the impacted soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1. The laboratory reports are included in Appendix B.

On August 25, 2006, Highlander personnel applied a Micro-blaze product to the overspray area. The treatment was applied to the vegetation to wash oil residue from the foliage. This area will be inspected for further applications and growth of the vegetation.

Referring to Table 1, the hydrocarbon impact to the soils appears to be shallow. AH-2, AH-3 and AH-4 exceeded the TPH RRAL of 5,000 mg/kg at 0-1', however, the deeper samples at 1-1.5' were all below the RRAL. The BTEX concentrations did not exceed the RRAL. Chloride concentrations were elevated in the shallow soil samples at 0-1' ranging from 1,480 mg/kg to 8,510 mg/kg. The area of AH-3 did show a deeper

impact to a depth of 2.0' below surface, with a chloride concentration decreasing from 12,100 mg/kg at 1.0' below surface to <5.0 mg/kg at 3.0' below surface.

Tank Battery

On August 25, 2006, Highlander personnel inspected and sampled the spill areas. The area north of the tanks did show oil staining where the tanks overflowed. The impacted area inside the facility fence line measured approximately 45' x 90'. The impacted area in the drive area measured approximately 20' x 150' and the area off the facility pad measured approximately 20' x 60'. The impacted areas are shown on Figure 3. A total of five (5) auger holes were installed in the impacted area to assess the soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1. The laboratory reports are included in Appendix B.

Referring to Table 3, AH-1, AH-3 and AH-4 exceeded the TPH RRAL at 0-1'. The TPH exceeded the RRAL to approximately 3.0' in the area of AH-2. BTEX concentrations did not exceed the RRAL. The chloride detected in the auger holes did not show a significant impact to the Site. The chlorides in the shallow soils 0-1' ranged from 369 mg/kg to 523 mg/kg. The deeper samples showed a declining chloride with depth, with the exception of AH-3 where the chloride concentration remained the consistent approximately 500 mg/kg.

Work Plan

Well #5

The hydrocarbon impact at the Site is limited to the shallow soils at 0-1' below surface. Chloride concentrations were elevated to depths ranging from 1'-3' below surface. To properly remediate the impacted area, the soils with levels exceeding the RRAL for TPH and elevated chloride will be removed and hauled to Sundance Services for disposal. Once removed, the area will be backfilled with clean fill material. In addition, the overspray areas will me monitored for growth or for additional Micro-Blaze treatments.

Tank Battery

The hydrocarbon impact in the area is limited to 1'-3' below surface. Based on the results, the chloride concentrations do not appear to an environmental concern. The areas exceeding the TPH RRAL at 1-3' will be excavated and blended below the RRAL. Confirmation samples will be collected from the remediated soils (stockpile) for evaluation. Once below the RRAL, the soil will either be placed back into the excavation or used as dike material at the facility.

Once completed, the results of the remedial activities, along with recommendations for further investigation or remediation, if any, will be submitted to the NMOCD. If you require any additional information or have any questions or comments, please call.

Highlander Environmental Corp.

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

cc: Mat Sweic - SWR
Dawn Howard

FIGURES

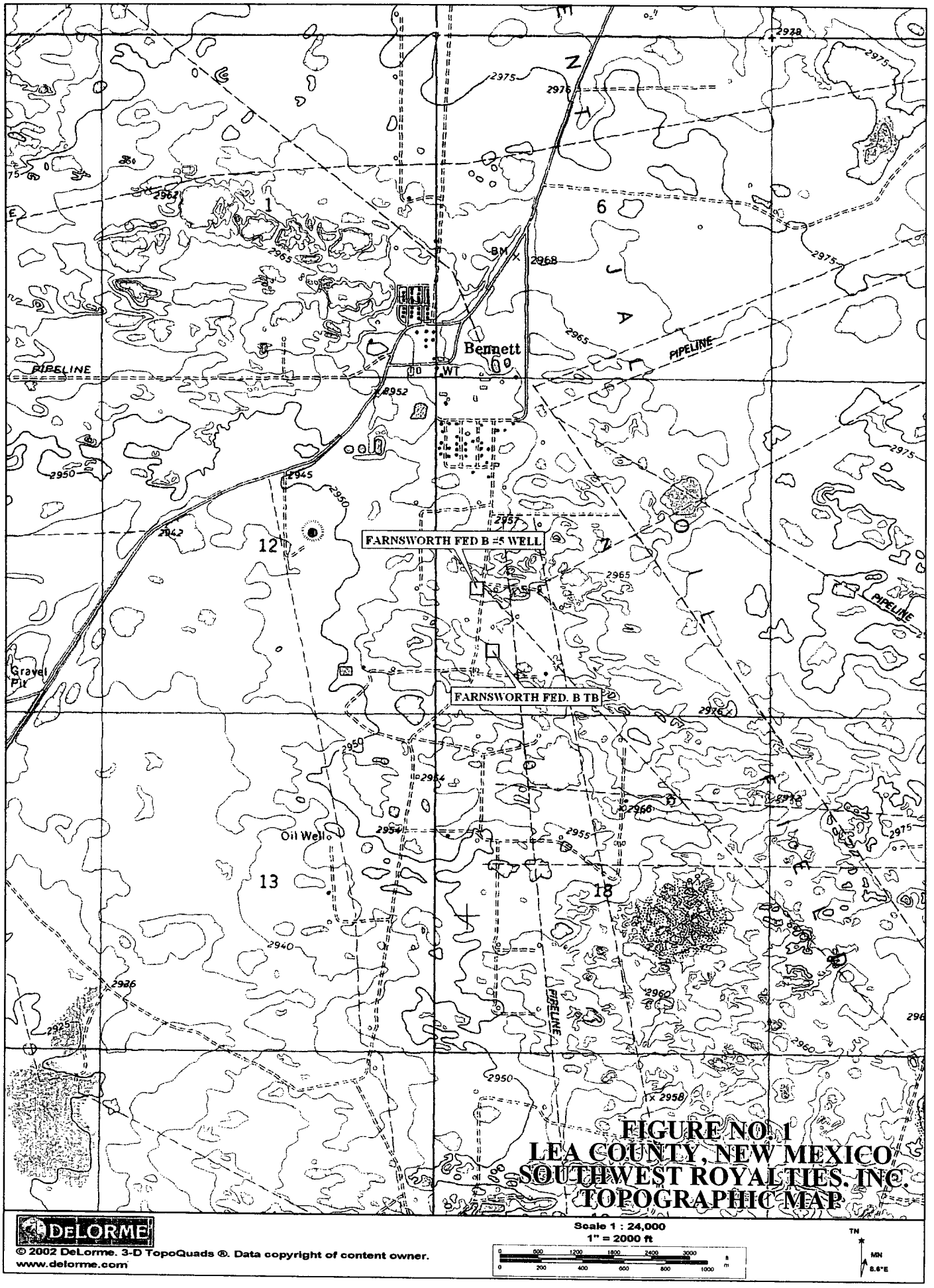
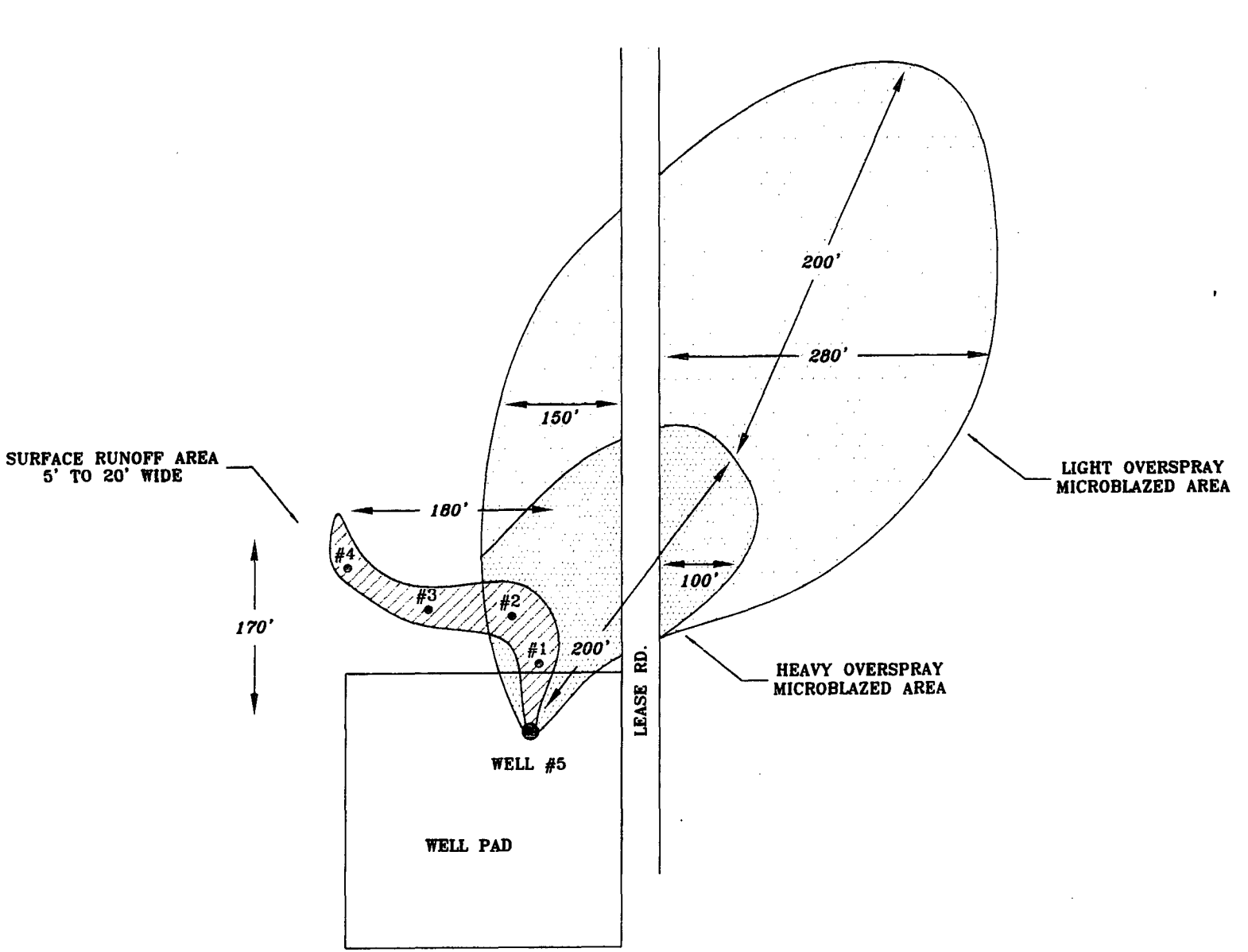


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
SOUTHWEST ROYALTIES, INC.
TOPOGRAPHIC MAP



LIGHT OVERSPRAY
HEAVY OVERSPRAY
SPILL AREA
SAMPLE LOCATIONS

NOT TO SCALE

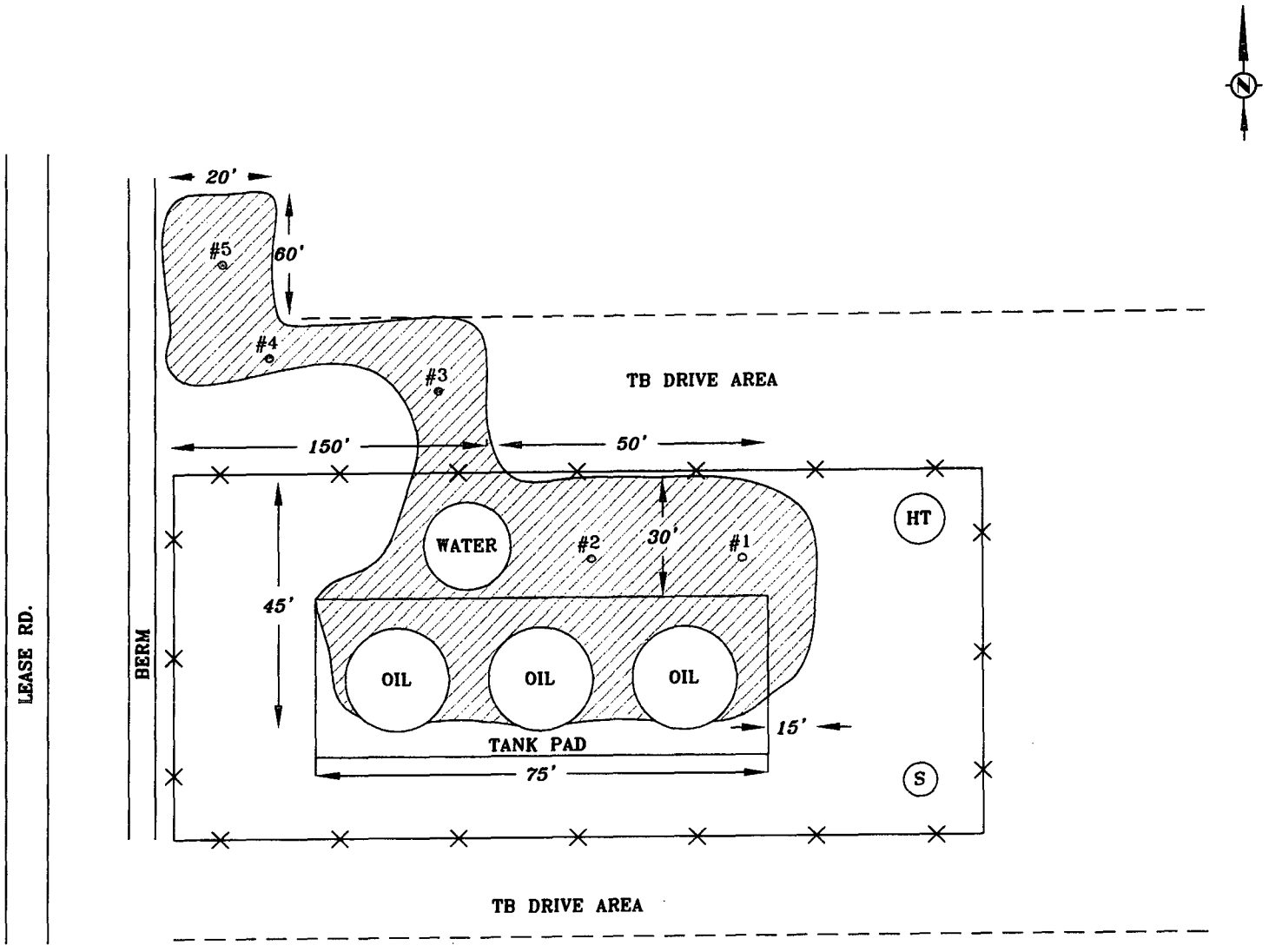
FIGURE NO. 2

LEA COUNTY, NEW MEXICO

SOUTHWEST ROYALTIES, INC.
FARNSWORTH FED. B #5 WELL

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/9/06
DWN. BY: JJ
FILE: C:\CM\2724 FARNSWORTH FED. B #



SPILL AREA

SAMPLE LOCATIONS

NOT TO SCALE

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

SOUTHWEST ROYALTIES, INC.
FARNSWORTH FED. B TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/9/06
DWN. BY: JJ
FILE: C:\CW\2724 FARNSWORTH FED. B

TABLES

Table 1
Southwest Royaties, Inc.
Farnsworth Federal B #5
Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (m/p) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
			C6-C12	C12-C28	C28-C35	Total						
AH-1	8/24/2006	0-1.0	205	1,270	178	1,650	<0.05	0.059	0.114	0.289	0.113	2540
	8/24/2006	1-1.5	<50	973.0	277	1,250	<0.025	<0.025	<0.025	<0.025	<0.025	273
AH-2	8/24/2006	0-1.0'	4,810	18,300	1,550	**24,700**	0.205	1.58	1.26	3.28	1.46	6,890
	8/24/2006	1-1.5	<50	466.0	155	621	<0.025	<0.025	<0.025	<0.025	<0.025	406
AH-3	8/24/2006	0-1.0'	1,970	6,650	665	**9,280**	0.113	0.992	0.724	1.92	0.808	8,510
	8/24/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	12,100
	8/24/2006	2-2.5	-	-	-	-	-	-	-	-	-	3,200
	8/24/2006	3-3.5	-	-	-	-	-	-	-	-	-	<5
AH-4	8/24/2006	0-1.0'	5,960	21,100	1,670	**28,700**	0.225	1.83	1.30	3.63	1.31	1,480
	8/24/2006	1-1.5	<50	475.0	129	604	<0.025	<0.025	<0.025	<0.025	<0.025	8.34

(-) Not Analyzed

Table 2
Southwest Royaties, Inc.
Farnsworth Federal B Tank Battery
Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (m/p) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
			C6-C12	C12-C28	C28-C35	Total						
AH-1	8/25/2006	0-1.0	379	12,300	1,910	**14,600**	<0.025	0.079	0.0839	0.365	0.103	429
	8/25/2006	1-1.5	<10	239	78.3	317	<0.025	<0.025	<0.025	<0.025	<0.025	62
	8/25/2006	2-2.5	<50	1,040.0	285	1,320						40
	8/25/2006	3-3.5										43.8
AH-2	8/25/2006	0-1.0'	1,590	19,100	3,160	**23,800**	0.0435	0.589	0.371	1.76	0.45	408
	8/25/2006	1-1.5	160.0	16,900	3,400	**20,500**	-	-	-	-	-	176
	8/25/2006	2-2.5	163.0	6,330	1,300	**7,790**	-	-	-	-	-	81.9
	8/25/2006	4-4.5	<50	530	243	773	<0.025	<0.025	<0.025	<0.025	<0.025	26
	8/25/2006	5-5.5	-	-	-	-	-	-	-	-	-	41
AH-3	8/25/2006	0-1.0'	50.9	4,220	1,010	**5,280**	<0.025	<0.025	<0.025	0.0463	<0.025	523
	8/25/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	541
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	508
AH-4	8/25/2006	0-1.0'	3,540	10,300	963	**14,800**	0.762	3.94	2.55	9.05	2.04	369
	8/25/2006	1-1.5	<10	208	73	281	<0.025	<0.025	<0.025	<0.025	<0.025	36.3
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	45.5
AH-5	8/25/2006	0-1.0'	560.0	1,460	108	2,130	0.340	2.09	1.49	3.08	1.17	244
	8/25/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	47.5
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	197

(-) Not Analyzed

APPENDIX A

Groundwater Data

Southwest Royalties
Farnsworth Fed #5
Average Depth to Groundwater (ft)

25 South 36 East

6 **295**	5	4	3	2	1
7	8	9	10 **180**	11	12
18	17	16	15 **120**	14	13
19	20	21	22	23 **53.7**	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South 37 East

6	5	4	3	2	1 **60**
7	8	9	10 **50**	11	12
18 **51**	17 **62**	16	15 **59.2**	14	13 **73** **81**
19 **44** **62**	20 **65** **34**	21	22 **26**	23	24 **255**
30	29 **219**	28	27	26 **75**	25 **55**
31	32	33 **86**	34	35 **185**	36

25 South 38 East

6 **60**	5	4	
7	8	9 **95** **88**	
18 **58**	17	16	
19 **69**	20 **78**	21 **87**	
30	29 **51**	28	
31	32	33	

26 South 36 East

6	5	4	3	2	1
7	8	9 **175** **177**	10	11	12
18 **220**	17	16	15	14	13
19 **198**	20	21	22	23 **151**	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South 37 East

6	5	4	3	2 **100** **103**	1
7 SITE **196**	8	9 **85**	10	11	12 **97** **102**
18	17	16	15	14 **100** **95**	13
19 **185**	20	21	22	23	24
30	29 **86**	28	27 **120**	26	25
31	32	33	34	35	36

26 South 38 East

6	5	4
7	8	9
18	17	16
19	20	21
30	29	28
31	32	33

88 New Mexico State Engineers Well Reports
105 USGS Well Reports
90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

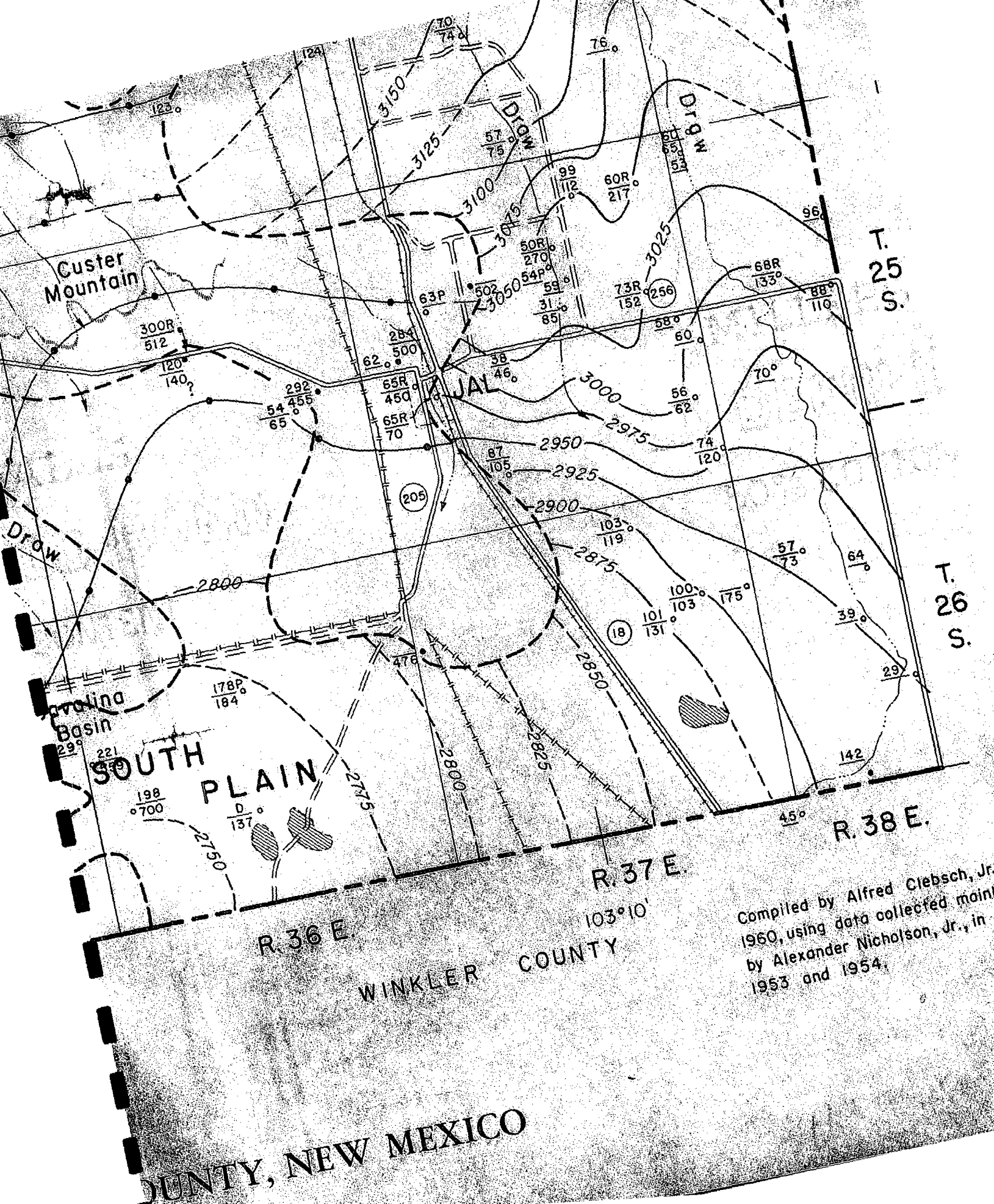

Custer Mountain
Draw
Draw
Draw
JAL
SOUTH PLAIN
Basin
T. 25 S.
T. 26 S.
R. 36 E.
R. 37 E.
R. 38 E.
103°10'
WINKLER COUNTY
3150
3125
3100
3075
3050
3025
3000
2975
2950
2925
2900
2875
2850
2825
2800
2775
2750
Compiled by Alfred Clebsch, Jr.
1960, using data collected main
by Alexander Nicholson, Jr., in
1953 and 1954.
OUNTY, NEW MEXICO

TABLE 6. RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level: Depth below land surface (feet)	Water level: Date measured	Year completed	Surface diameter of wells	Method of lift	Use of water	Remarks
25.38.19.342	Pure Oil Co.	To(?)	133	3,061	68	1952	—	—	—	In	Dollarhide Gasoline Plant well 2.
21.121	Tom Linebury	To	110	3,103	87.7	2-12-53	—	7	Lw	S	—
29.131	—	Qal	—	3,040	69.9	2-15-53	—	6	Lw	N	—
26.32.21.322	Battle Ax Ranch	Tr(?)	253	3,140	180	7-23-54	—	—	Li	D,S	—
26.33.3.444	W. D. Dinwiddie	Qal	180	3,315	102.8	7-23-54	—	6	N	N	—
3.444a	do.	Qal	—	3,315	—	—	—	6(?)	Lw	S	Chemical analysis in table 8. Located 50 feet west of 26.33.3.444.
9.443	—	Qal(?)	—	3,280	106.6	7-26-54	—	—	Lw	S	—
22.433	Battle Ax Ranch	Qal	200(?)	3,270	79.7	7-26-54	—	6	Lw	S	—
26.34.6.213	—	Tr	360	3,330	141.9	7-23-54	—	8	Lw	S	—
26.35.13.222	—	Qal	—	2,990	229.1	12-12-58	—	7	Lw	S	Chemical analysis in table 8.
26.36.9.440	Frank Antheys	Qal	184M	2,940	177.8	12-12-58	—	7	Lw	D,S	MWP
18.311	City of Jal	Qal	559	2,981	220.8	3-17-60	1960	24	Te(?)	P	Yield 453 gpm. Gravel packed. WBZ 275-300, 400-465, 500-530 feet.
19.233	do.	Qal	700	2,950	198.0	—	1960	24	Te(?)	P	Yield 408 gpm. Gravel packed. WBZ 270-280, 400-480, 550-600, 670-680 feet.
21.443	—	—	137(?)	2,900	Dry	12-11-58	—	11	N	N	—
26.37.2.133	Clyde Cooper	Qal(?)	119	3,000	103.4	2-16-53	1937	8	Lw	S	—
7.331	EPNG	Tr	476	2,960	—	—	1937	8⅝	Te	In,D	Jal Plant 1, well 1.
12.314	—	Qal	—	3,010	102.3	2-16-53	—	9½	N	N	—
12.331	—	Qal	103 ± M	3,000	99.9	2-17-53	—	3	N	N	Cased shothole.
12.441	Humble Oil Co.	Qal	175	—	—	—	1944	—	—	—	WBZ 125-150 feet. EY 68 gpm.
14.122	—	Qal	131M	2,985	100.6	2-17-53	—	3	N	N	Cased shothole.
26.38.7.244	Tom Linebury	Qal	73	3,000	57.1	2-24-53	—	8½	N	N	—
8.444	do.	Qal	66	3,000	64.5	2-24-53	—	6½	Lw	S	—
17.414	do.	Qal	—	2,975	39.4	2-24-53	—	5½	Lw	S	—
21.344	do.	Qal	—	2,955	29.0	2-13-53	—	3	N	N	Cased shothole.
32.141	do.	Tr(?)	—	2,950	142.4	2-13-53	—	26	N	N	—

TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX.
Explanations of symbols are included in the headnotes of Table 6.

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level: Depth below land surface (feet)	Water level: Date measured	Year completed	Surface diameter of wells	Method of lift	Use of water	Remarks
				Gaines County Tex.							
A-12.25.341	—	To	50(?)	3,545	40.8	12- 9-53	—	6	Lw	N	—
A-28.3.413	Greenwood	—	—	3,485	35.1	12- 9-53	—	—	Lw	S	—
				Andrews County, Tex.							
A-29.17.320	H. O. Sims	To(?)	82	3,510	79.4	7-28-40	—	—	Lw	S	—
A-39.4.420	do.	To	81	3,478	72.4	10- 9-53	—	6½	Lw	S	—
A-39.14.111	Humble Oil Co.	—	215	3,410	Dry	—	—	—	—	—	—
A-40.16.330	M. L. Goins	To	80	3,305	74.1	10-15-53	—	—	Lw	D,S	—
				Winkler County, Tex.							
C-22.6	Tom Linebury	Qal	—	2,940	45.0	2-13-53	—	6	N	N	—

Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320104103120301

Save file of selected sites to local disk for future upload

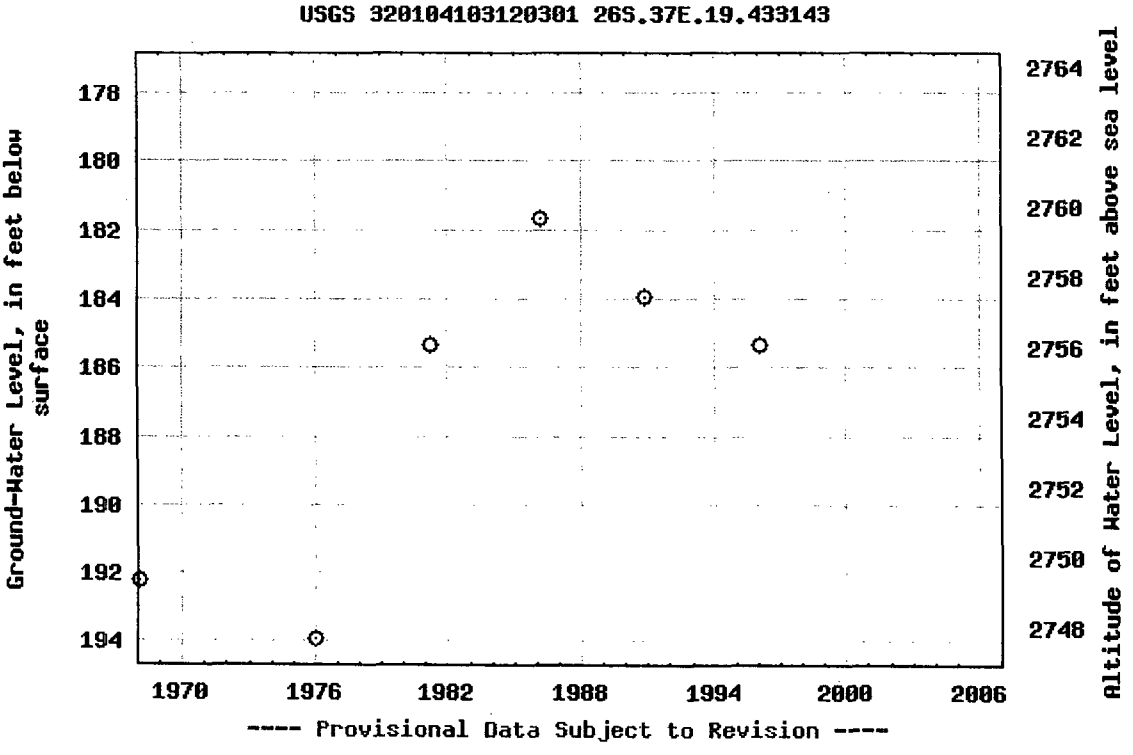
USGS 320104103120301 26S.37E.19.433143

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°01'04", Longitude 103°12'03" NAD27
Land-surface elevation 2,941.40 feet above sea level NGVD29
The depth of the well is 500 feet below land surface.
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320251103071401

Save file of selected sites to local disk for future upload

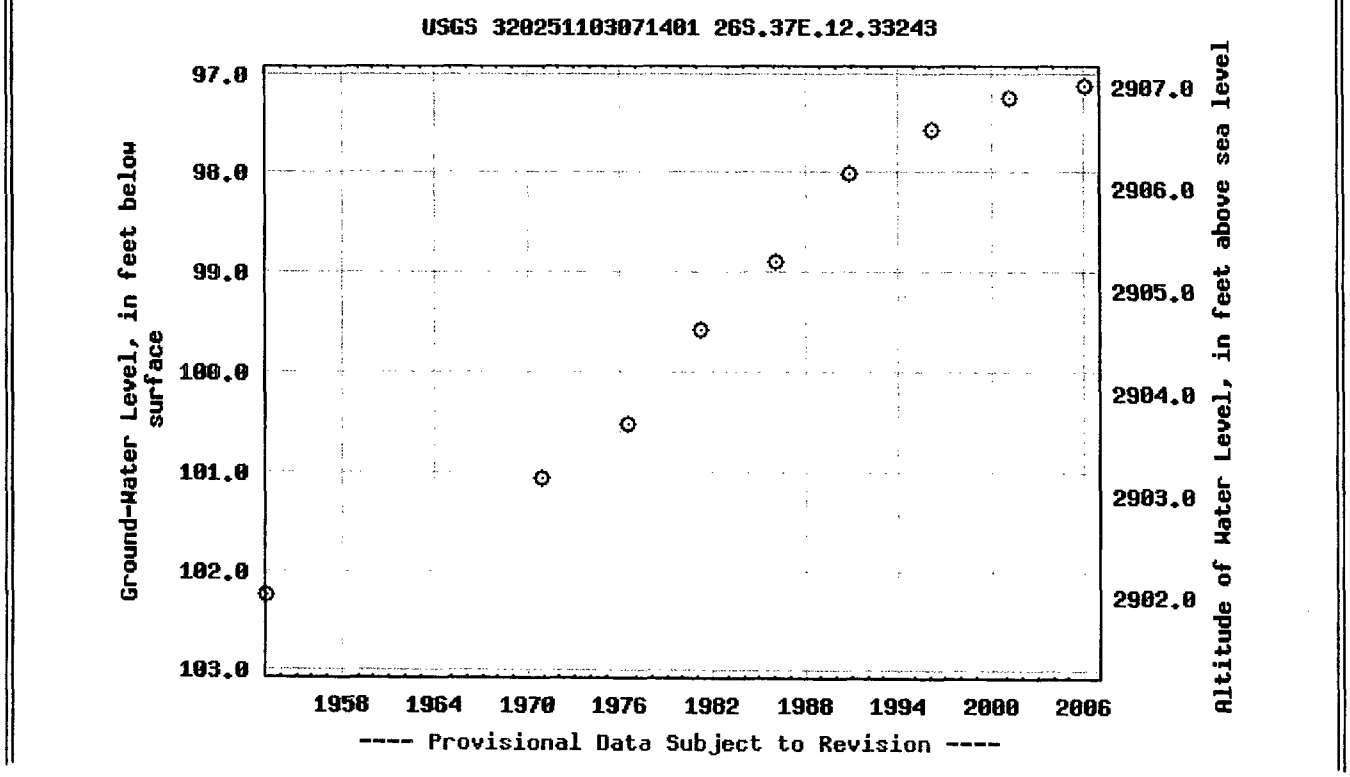
USGS 320251103071401 26S.37E.12.33243

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°02'51", Longitude 103°07'14" NAD27
Land-surface elevation 3,004.20 feet above sea level NGVD29
The depth of the well is 160 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320259103122201

Save file of selected sites to local disk for future upload

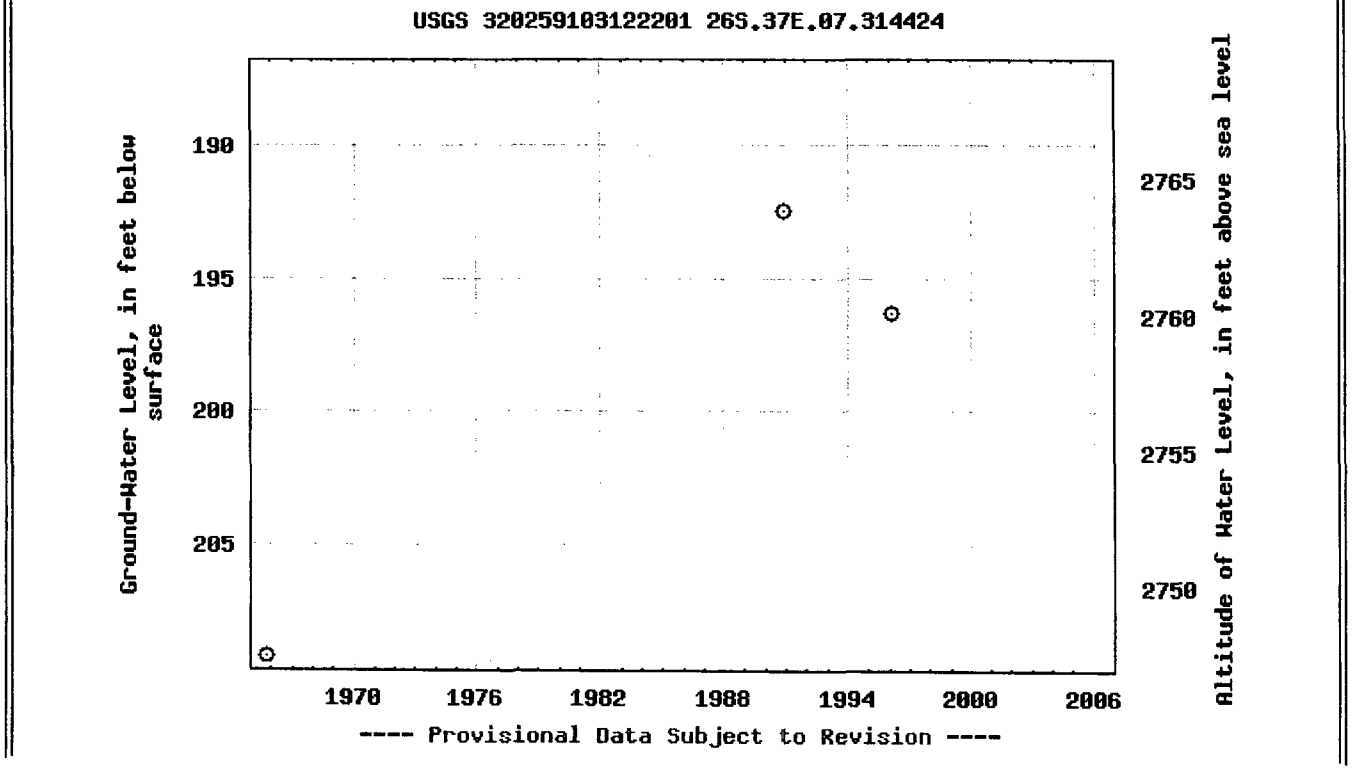
USGS 320259103122201 26S.37E.07.314424

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°02'59", Longitude 103°12'22" NAD27
Land-surface elevation 2,956.40 feet above sea level NGVD29
The depth of the well is 470 feet below land surface.
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Water Resources National Water Information System: Web Interface

Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320042103103901

Save file of selected sites to local disk for future upload

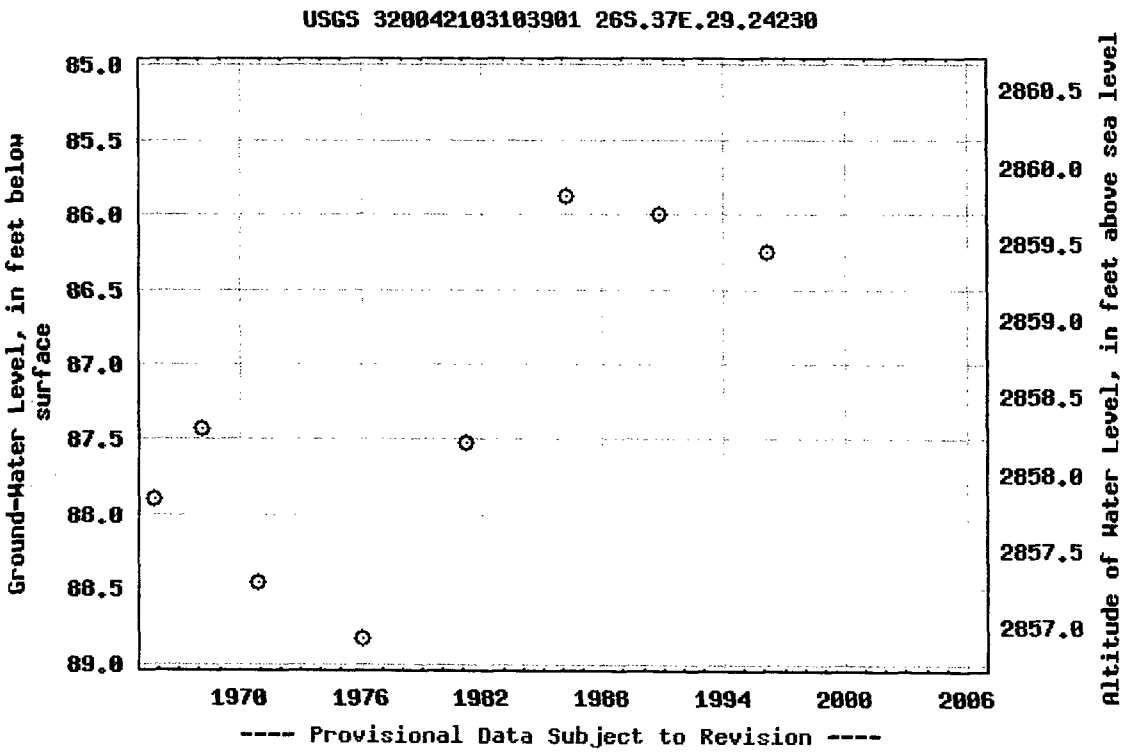
USGS 320042103103901 26S.37E.29.24230

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°00'42", Longitude 103°10'39" NAD27
Land-surface elevation 2,945.70 feet above sea level NGVD29
The depth of the well is 115 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320046103085101

Save file of selected sites to local disk for future upload

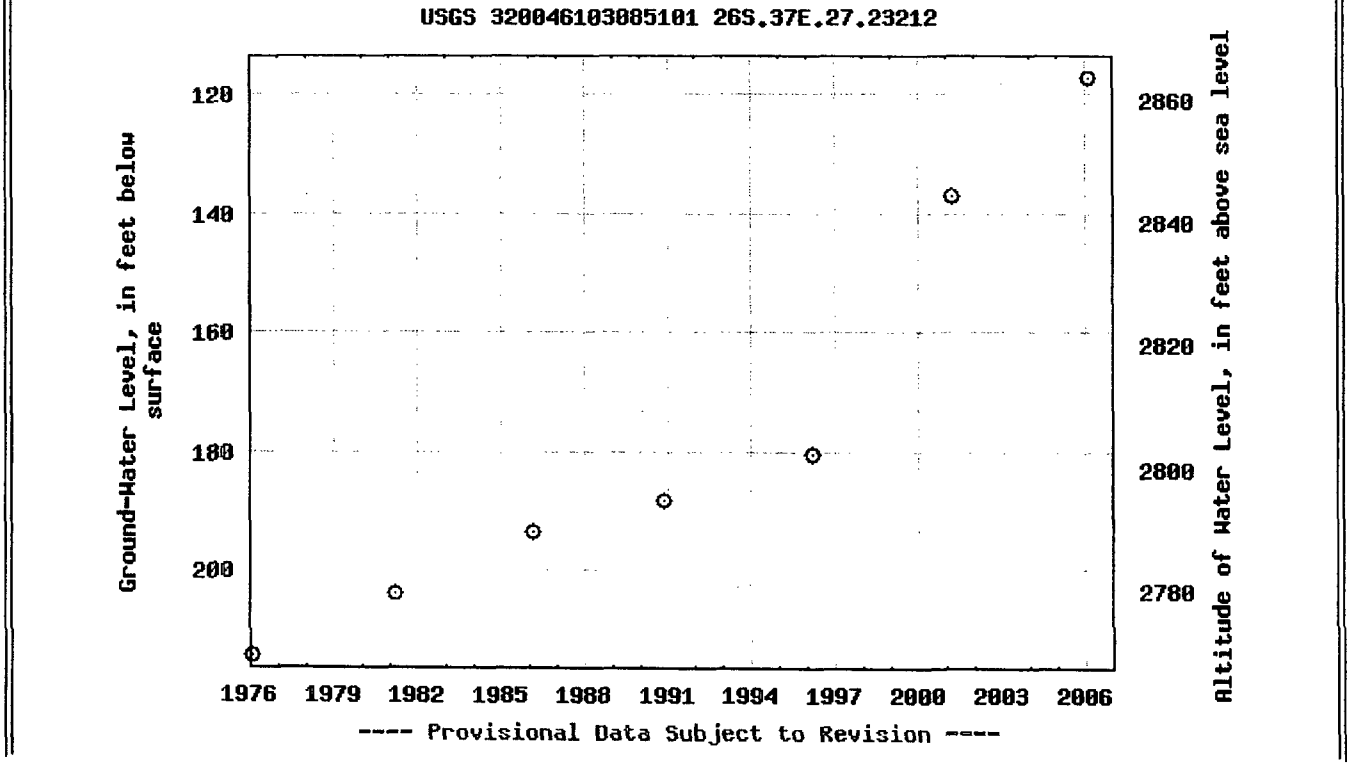
USGS 320046103085101 26S.37E.27.23212

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°00'46", Longitude 103°08'51" NAD27
Land-surface elevation 2,982.20 feet above sea level NGVD29
The depth of the well is 525 feet below land surface.
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320303103100901

Save file of selected sites to local disk for future upload

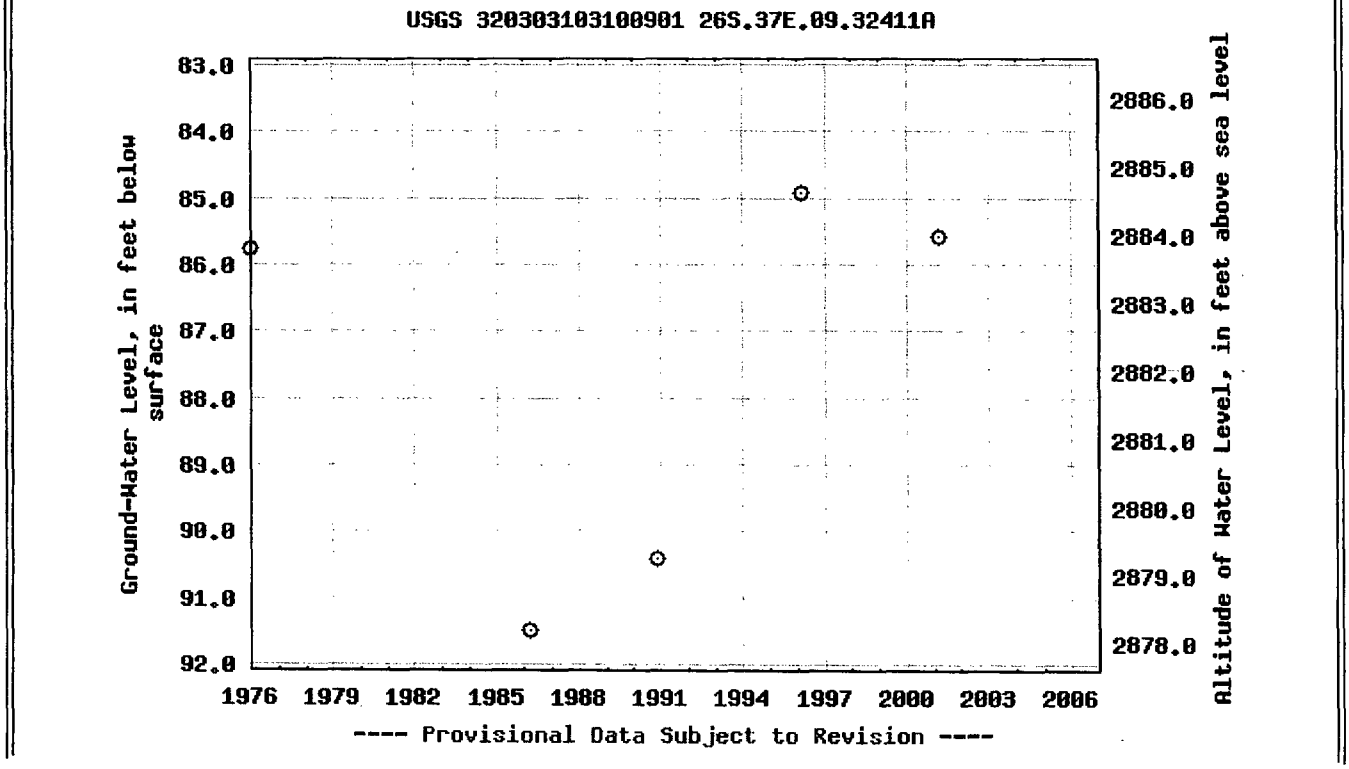
USGS 320303103100901 26S.37E.09.32411A

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°03'03", Longitude 103°10'09" NAD27
Land-surface elevation 2,969.60 feet above sea level NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320401103082901

Save file of selected sites to local disk for future upload

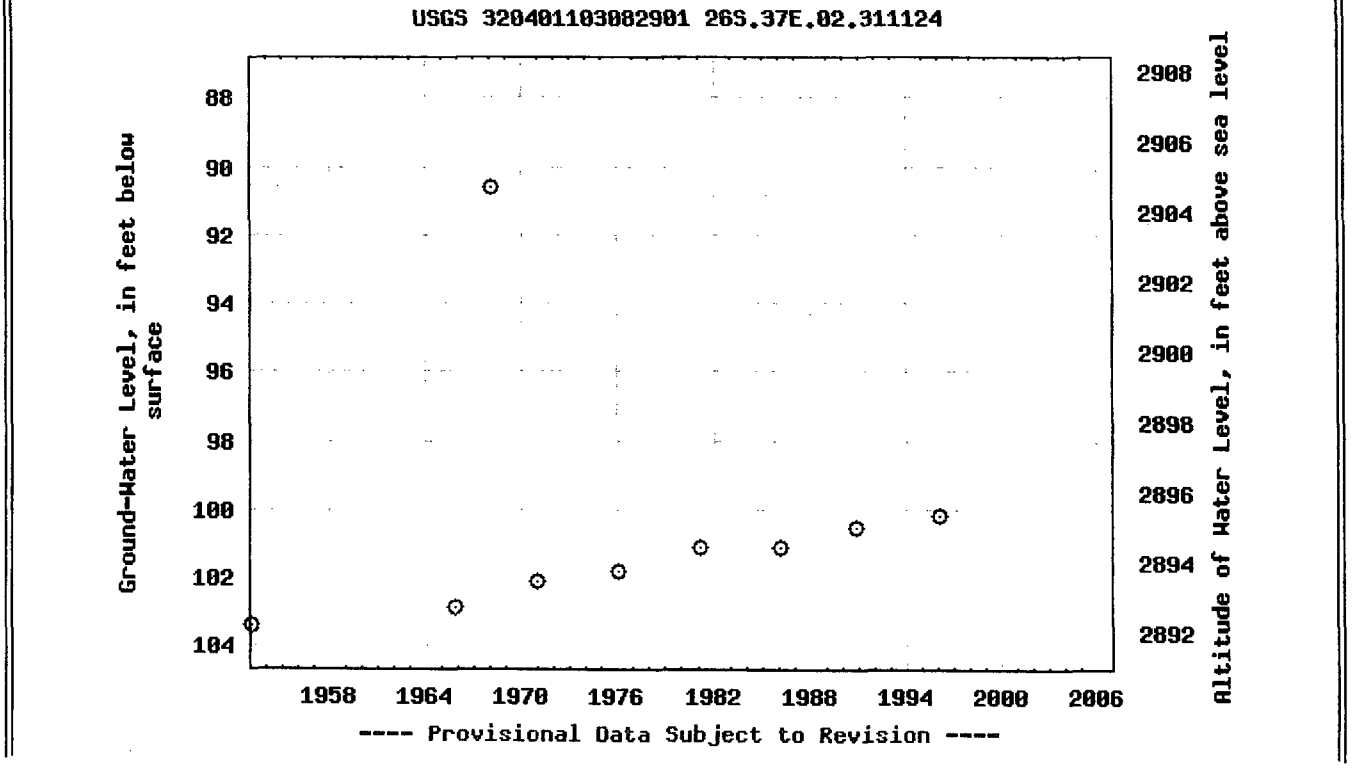
USGS 320401103082901 26S.37E.02.311124

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°04'01", Longitude 103°08'29" NAD27
Land-surface elevation 2,995.40 feet above sea level NGVD29
The depth of the well is 119 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Water Resources National Water Information System: Web Interface Data Category: Ground Water Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320149103134201

Save file of selected sites to local disk for future upload

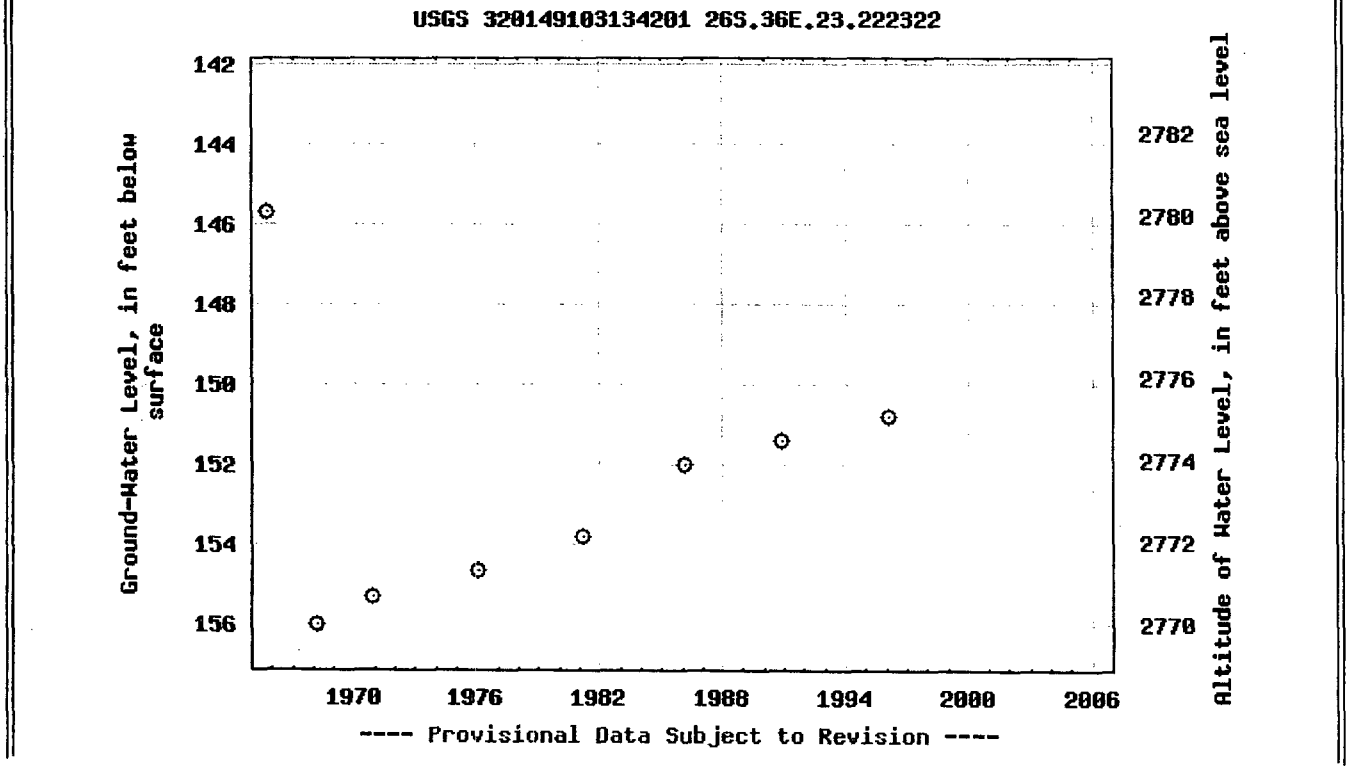
USGS 320149103134201 26S.36E.23.222322

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°01'49", Longitude 103°13'42" NAD27
Land-surface elevation 2,925.80 feet above sea level NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



USGS Water Resources

National Water Information System: Web Interface

Data Category: Ground Water | Geographic Area: New Mexico | GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320251103154201

Save file of selected sites to local disk for future upload

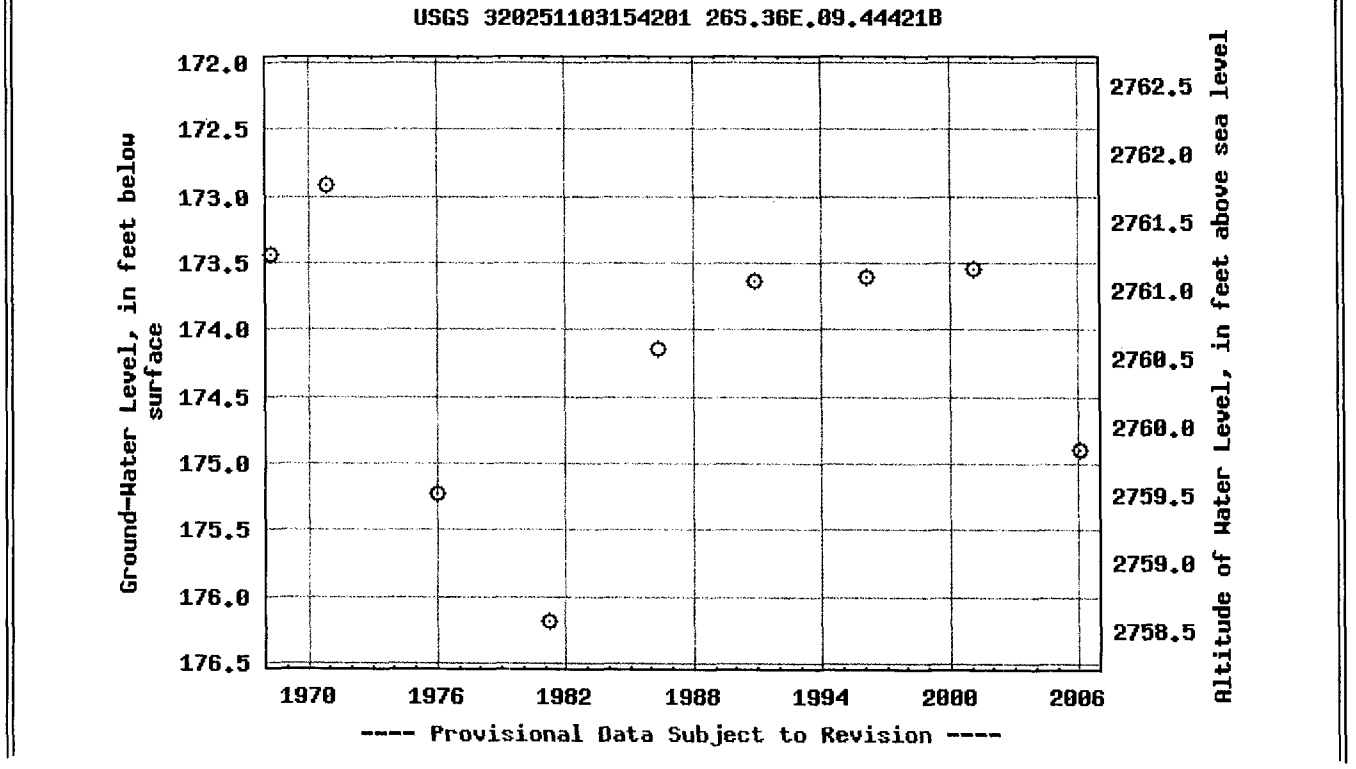
USGS 320251103154201 26S.36E.09.44421B

Available data for this site Ground-water: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°02'51", Longitude 103°15'42" NAD27
Land-surface elevation 2,934.70 feet above sea level NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



USGS

Water Resources

National Water Information System: Web Interface

Data Category: Ground Water GO

Geographic Area: New Mexico GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320510103101301

Save file of selected sites to local disk for future upload

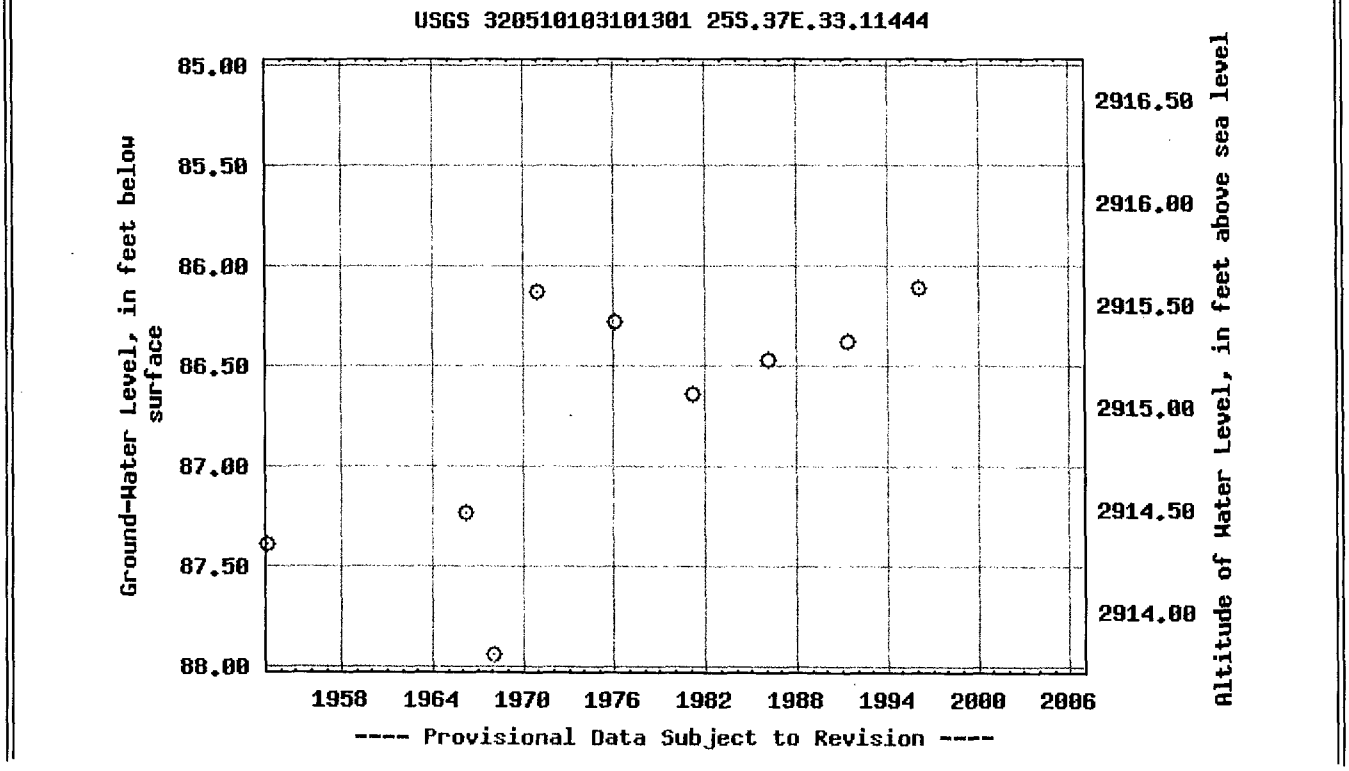
USGS 320510103101301 25S.37E.33.11444

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°05'10", Longitude 103°10'13" NAD27
Land-surface elevation 3,001.70 feet above sea level NGVD29
The depth of the well is 105 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 26S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 08/28/2006

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

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 25S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 08/28/2006

								(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	25S	37E	19				9	27	63	44
CP	25S	37E	20				6	23	60	34
CP	25S	37E	29				5	187	250	219
CP	25S	37E	35				1	185	185	185

Record Count: 21

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 26S Range: 36E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 08/28/2006

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

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 25S Range: 36E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 08/28/2006

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

No Records found, try again

APPENDIX B

Analytical Reports

Analytical Report

Farnsworth Fed. B #5
8/31/2006

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: Clayton Williams/SWR/ Farnsworth Fed. B #5

Project Number: 2724

Location: Lea Co., NM

Lab Order Number: 6H28009

Report Date: 08/31/06

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 0-1'	6H28009-01	Solid	08/24/06 00:00	08-28-2006 15:55
AH-1 1-1.5'	6H28009-02	Solid	08/24/06 00:00	08-28-2006 15:55
AH-2 0-1'	6H28009-03	Solid	08/24/06 00:00	08-28-2006 15:55
AH-2 1-1.5'	6H28009-04	Solid	08/24/06 00:00	08-28-2006 15:55
AH-3 0-1'	6H28009-05	Solid	08/24/06 00:00	08-28-2006 15:55
AH-3 1-1.5'	6H28009-06	Solid	08/24/06 00:00	08-28-2006 15:55
AH-3 2-2.5'	6H28009-07	Solid	08/24/06 00:00	08-28-2006 15:55
AH-3 3-3.5'	6H28009-08	Solid	08/24/06 00:00	08-28-2006 15:55
AH-4 0-1'	6H28009-09	Solid	08/24/06 00:00	08-28-2006 15:55
AH-4 1-1.5'	6H28009-10	Solid	08/24/06 00:00	08-28-2006 15:55

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1' (6H28009-01) Solid									
Benzene	ND	0.0500	mg/kg dry	50	EH63004	08/29/06	08/29/06	EPA 8021B	
Toluene	**0.0590**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.114**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.289**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.113**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**205**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**1270**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**178**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**1650**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*18.6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.5 %*	*70-130*		"	"	"	"	*S-06*
AH-1 1-1.5' (6H28009-02) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/29/06	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		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**973**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**277**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**1250**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*19.9 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*15.9 %*	*70-130*		"	"	"	"	*S-06*
AH-2 0-1' (6H28009-03) Solid									
Benzene	**0.205**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**1.58**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.26**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**3.28**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.46**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*179 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*244 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**4810**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	

Highlander Environmental Corp.	Project: Clayton Williams/SWR/ Farnsworth Fed. B #5	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 0-1' (6H28009-03) Solid									
Carbon Ranges C12-C28	**18300**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C28-C35	**1550**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**24700**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*34.4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*18.3 %*	*70-130*		"	"	"	"	*S-06*
AH-2 1-1.5' (6H28009-04) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/29/06	EPA 8021B	
Toluene	**J [0.0104]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0218]**	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [23.3]**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	J
Carbon Ranges C12-C28	**466**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**155**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**621**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*18.2 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.5 %*	*70-130*		"	"	"	"	*S-06*
AH-3 0-1' (6H28009-05) Solid									
Benzene	**0.113**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**0.992**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.724**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.92**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.808**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*162 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*217 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**1970**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**6650**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**665**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**9280**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*25.4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*17.6 %*	*70-130*		"	"	"	"	*S-06*

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

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 1-1.5' (6H28009-06) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/29/06	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		*84.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.0 %*	*70-130*		"	"	"	"	
AH-4 0-1' (6H28009-09) Solid									
Benzene	**0.225**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**1.83**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.30**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**3.63**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.31**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*220 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*227 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**5960**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**21100**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1670**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**28700**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*39.2 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*19.1 %*	*70-130*		"	"	"	"	*S-06*
AH-4 1-1.5' (6H28009-10) Solid									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**J [0.0101]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0222]**	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [19.5]**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	J

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4 1-1.5' (6H28009-10) Solid									
Carbon Ranges C12-C28	**475**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C28-C35	**129**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**604**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*16.1 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.4 %*	*70-130*		"	"	"	"	*S-06*

Highlander Environmental Corp.	Project: Clayton Williams/SWR/ Farnsworth Fed. B #5	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1' (6H28009-01) Solid									
Chloride	**2540**	50.0	mg/kg	100	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**2.5**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-1 1-1.5' (6H28009-02) Solid									
Chloride	**273**	10.0	mg/kg	20	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**3.8**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-2 0-1' (6H28009-03) Solid									
Chloride	**6890**	100	mg/kg	200	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**5.5**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-2 1-1.5' (6H28009-04) Solid									
Chloride	**406**	10.0	mg/kg	20	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**0.3**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-3 0-1' (6H28009-05) Solid									
Chloride	**8510**	200	mg/kg	400	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-3 1-1.5' (6H28009-06) Solid									
Chloride	**12100**	200	mg/kg	400	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**4.6**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-3 2-2.5' (6H28009-07) Solid									
Chloride	**3200**	50.0	mg/kg	100	EH63020	08/30/06	08/30/06	EPA 300.0	
AH-3 3-3.5' (6H28009-08) Solid									
Chloride	**J [4.22]**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	J
AH-4 0-1' (6H28009-09) Solid									
Chloride	**1480**	20.0	mg/kg	40	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**3.5**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	

Highlander Environmental Corp.	Project: Clayton Williams/SWR/ Farnsworth Fed. B #5	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4 1-1.5' (6H28009-10) Solid									
Chloride	**8.34**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**0.3**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63001 - Solvent Extraction (GC)										
Blank (EH63001-BLK1)				Prepared & Analyzed: 08/29/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.4*		*mg/kg*	*50.0*		*90.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.8*		"	*50.0*		*77.6*	*70-130*			
LCS (EH63001-BS1)				Prepared & Analyzed: 08/29/06						
Carbon Ranges C6-C12	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	441	10.0	"	500		88.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	927	10.0	"	1000		92.7	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.5*		"	*50.0*		*75.0*	*70-130*			
Calibration Check (EH63001-CCV1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	203		mg/kg	250		81.2	80-120			
Carbon Ranges C12-C28	246		"	250		98.4	80-120			
Total Hydrocarbons	449		"	500		89.8	80-120			
Surrogate: 1-Chlorooctane	*52.2*		"	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.0*		"	*50.0*		*88.0*	*70-130*			
Matrix Spike (EH63001-MS1)	**Source: 6H28009-06**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	539	10.0	mg/kg dry	524	ND	103	75-125			
Carbon Ranges C12-C28	489	10.0	"	524	ND	93.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1050	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	*62.2*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.4*		"	*50.0*		*107*	*70-130*			

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63001 - Solvent Extraction (GC)										
Matrix Spike Dup (EH63001-MSD1)	**Source: 6H28009-06**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	530	10.0	mg/kg dry	524	ND	101	75-125	1.68	20	
Carbon Ranges C12-C28	489	10.0	"	524	ND	93.3	75-125	0.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1020	10.0	"	1050	ND	97.1	75-125	0.976	20	
Surrogate: 1-Chlorooctane	*59.6*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.7*		*"*	*50.0*		*91.4*	*70-130*			
Batch EH63004 - EPA 5030C (GC)										
Blank (EH63004-BLK1)				Prepared & Analyzed: 08/29/06						
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	*44.0*		*ug/kg*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.1*		*"*	*40.0*		*90.2*	*80-120*			
LCS (EH63004-BS1)				Prepared & Analyzed: 08/29/06						
Benzene	1.40	0.0250	mg/kg wet	1.25		112	80-120			
Toluene	1.48	0.0250	"	1.25		118	80-120			
Ethylbenzene	1.20	0.0250	"	1.25		96.0	80-120			
Xylene (p/m)	2.95	0.0250	"	2.50		118	80-120			
Xylene (o)	1.35	0.0250	"	1.25		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.1*		*ug/kg*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.2*		*"*	*40.0*		*108*	*80-120*			

Highlander Environmental Corp.	Project: Clayton Williams/SWR/ Farnsworth Fed. B #5	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

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 EH63004 - EPA 5030C (GC)										
Calibration Check (EH63004-CCV1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	46.9		ug/kg	50.0		93.8	80-120			
Toluene	50.9		"	50.0		102	80-120			
Ethylbenzene	55.2		"	50.0		110	80-120			
Xylene (p/m)	112		"	100		112	80-120			
Xylene (o)	54.7		"	50.0		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.3*		"	*40.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.8*		"	*40.0*		*112*	*80-120*			
Matrix Spike (EH63004-MS1)		**Source: 6H28010-02**		Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	1.24	0.0250	mg/kg dry	1.27	ND	97.6	80-120			
Toluene	1.36	0.0250	"	1.27	ND	107	80-120			
Ethylbenzene	1.27	0.0250	"	1.27	ND	100	80-120			
Xylene (p/m)	2.93	0.0250	"	2.54	ND	115	80-120			
Xylene (o)	1.34	0.0250	"	1.27	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.5*		*ug/kg*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.9*		"	*40.0*		*110*	*80-120*			
Matrix Spike Dup (EH63004-MSD1)		**Source: 6H28010-02**		Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	1.17	0.0250	mg/kg dry	1.27	ND	92.1	80-120	5.80	20	
Toluene	1.29	0.0250	"	1.27	ND	102	80-120	4.78	20	
Ethylbenzene	1.25	0.0250	"	1.27	ND	98.4	80-120	1.61	20	
Xylene (p/m)	2.74	0.0250	"	2.54	ND	108	80-120	6.28	20	
Xylene (o)	1.36	0.0250	"	1.27	ND	107	80-120	0.939	20	
Surrogate: a,a,a-Trifluorotoluene	*33.5*		*ug/kg*	*40.0*		*83.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.9*		"	*40.0*		*94.8*	*80-120*			

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63005 - General Preparation (Prep)										
Blank (EH63005-BLK1)				Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	ND	0.1	%							
Duplicate (EH63005-DUP1)	Source: 6H28009-01			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	2.1	0.1	%		2.5			17.4	20	
Duplicate (EH63005-DUP2)	Source: 6H28010-17			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	9.5	0.1	%		9.2			3.21	20	
Duplicate (EH63005-DUP3)	Source: 6H29004-03			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	8.8	0.1	%		7.3			18.6	20	
Batch EH63020 - Water Extraction										
Blank (EH63020-BLK1)				Prepared & Analyzed: 08/30/06						
Chloride	ND	0.500	mg/kg							
LCS (EH63020-BS1)				Prepared & Analyzed: 08/30/06						
Chloride	10.5	0.500	mg/kg	10.0		105	80-120			
Calibration Check (EH63020-CCV1)				Prepared & Analyzed: 08/30/06						
Chloride	9.95		mg/L	10.0		99.5	80-120			
Duplicate (EH63020-DUP1)	Source: 6H28009-02			Prepared & Analyzed: 08/30/06						
Chloride	247	10.0	mg/kg		273			10.0	20	
Duplicate (EH63020-DUP2)	Source: 6H28010-01			Prepared & Analyzed: 08/30/06						
Chloride	371	10.0	mg/kg		429			14.5	20	

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

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63020 - Water Extraction										
Matrix Spike (EH63020-MS1)	**Source: 6H28009-02**			Prepared & Analyzed: 08/30/06						
Chloride	462	10.0	mg/kg	200	273	94.5	80-120			
Matrix Spike (EH63020-MS2)	**Source: 6H28010-01**			Prepared & Analyzed: 08/30/06						
Chloride	662	10.0	mg/kg	200	429	116	80-120			

Highlander Environmental Corp.
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Midland TX, 79705

Project: Clayton Williams/SWR/ Farnsworth Fed. B #5
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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Report Approved By: Raland K Tuttle Date: 8/31/2006

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.

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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

PAGE: 1 OF: 1

CLIENT NAME: Clayton Williams / Southwest Royalties

SITE MANAGER: IKE Tavarez

PROJECT NO.: 2724

PROJECT NAME: SWR / Hartmworth Fed. B #5 Lea. Co. NM.

LAB I.D. NUMBER 6H28009	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, Chlorides	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
-01	8/24/06		S		G	AH-1 0-1	1				ICE		X		X											X			
-02			S		G	AH-1 1-1.5'	1				ICE		X		X											X			
-03			S		G	AH-2 0-1	1				ICE		X		X											X			
-04			S		G	AH-2 1-1.5'	1				ICE		X		X											X			
-05			S		G	AH-3 0-1	1				ICE		X		X											X			
-06			S		G	AH-3 1-1.5'	1				ICE		X		X											X			
-07			S		G	AH-3 2-2.5'	1				ICE															X			
-08			S		G	AH-3 3-3.5'	1				ICE															X			
-09			S		G	AH-4 0-1	1				ICE		X		X											X			
-10			S		G	AH-4 1-1.5'	1				ICE		X		X											X			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 8/28/06 Time: 3:55

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) Joe 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: Env.

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Jaime Mendoza

DATE: 08-28-06 TIME: 1555

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.0°C 4oz glass once w/labels no seals

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

REMARKS:

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.

Kolt Harrison

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander Environmental

Date/ Time: 08-28-06 @ 1555

Lab ID # : 6H28009

Initials: JMM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report

Farnsworth Fed. B Tank Battery
8/31/2006

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: Clayton Williams/SWR/Farnsworth Fed. B TB

Project Number: 2724

Location: Lea Co., NM

Lab Order Number: 6H28010

Report Date: 08/31/06

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 0-1'	6H28010-01	Soil	08/25/06 00:00	08-28-2006 15:55
AH-1 1-1.5'	6H28010-02	Soil	08/25/06 00:00	08-28-2006 15:55
AH-1 2-2.5'	6H28010-03	Soil	08/25/06 00:00	08-28-2006 15:55
AH-1 3-3.5'	6H28010-04	Soil	08/25/06 00:00	08-28-2006 15:55
AH-2 0-1'	6H28010-05	Soil	08/25/06 00:00	08-28-2006 15:55
AH-2 1-1.5'	6H28010-06	Soil	08/25/06 00:00	08-28-2006 15:55
AH-2 2-2.5'	6H28010-07	Soil	08/25/06 00:00	08-28-2006 15:55
AH-2 4-4.5'	6H28010-08	Soil	08/25/06 00:00	08-28-2006 15:55
AH-2 5-5.5'	6H28010-09	Soil	08/25/06 00:00	08-28-2006 15:55
AH-3 0-1'	6H28010-10	Soil	08/25/06 00:00	08-28-2006 15:55
AH-3 1-1.5'	6H28010-11	Soil	08/25/06 00:00	08-28-2006 15:55
AH-3 2-2.5'	6H28010-12	Soil	08/25/06 00:00	08-28-2006 15:55
AH-4 0-1'	6H28010-13	Soil	08/25/06 00:00	08-28-2006 15:55
AH-4 1-1.5'	6H28010-14	Soil	08/25/06 00:00	08-28-2006 15:55
AH-4 2-2.5'	6H28010-15	Soil	08/25/06 00:00	08-28-2006 15:55
AH-5 0-1'	6H28010-16	Soil	08/25/06 00:00	08-28-2006 15:55
AH-5 1-1.5'	6H28010-17	Soil	08/25/06 00:00	08-28-2006 15:55
AH-5 2-2.5'	6H28010-18	Soil	08/25/06 00:00	08-28-2006 15:55

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1' (6H28010-01) Soil									
Benzene	**J [0.0113]**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	J
Toluene	**0.0790**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0839**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.365**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.103**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**379**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**12300**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1910**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**14600**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*17.1 %*	*70-130*		"	"	"	"	*S-06*
AH-1 1-1.5' (6H28010-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	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		*99.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**239**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**78.3**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**317**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.6 %*	*70-130*		"	"	"	"	
AH-1 2-2.5' (6H28010-03) Soil									
Carbon Ranges C6-C12	ND	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**1040**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**285**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**1320**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.2 %*	*70-130*		"	"	"	"	*S-06*

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 0-1' (6H28010-05) Soil									
Benzene	**0.0435**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**0.589**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.371**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.76**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.450**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*128 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*126 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**1590**	100	mg/kg dry	10	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**19100**	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	**3160**	100	"	"	"	"	"	"	
Total Hydrocarbons	**23800**	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*10.4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*9.48 %*	*70-130*		"	"	"	"	*S-06*
AH-2 1-1.5' (6H28010-06) Soil									
Carbon Ranges C6-C12	**160**	100	mg/kg dry	10	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**16900**	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	**3400**	100	"	"	"	"	"	"	
Total Hydrocarbons	**20500**	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.5 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.9 %*	*70-130*		"	"	"	"	*S-06*
AH-2 2-2.5' (6H28010-07) Soil									
Carbon Ranges C6-C12	**163**	100	mg/kg dry	10	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**6330**	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1300**	100	"	"	"	"	"	"	
Total Hydrocarbons	**7790**	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*17.8 %*	*70-130*		"	"	"	"	*S-06*

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 4-4.5' (6H28010-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/29/06	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		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**530**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**243**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**773**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.8 %*	*70-130*		"	"	"	"	*S-06*
AH-3 0-1' (6H28010-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/29/06	EPA 8021B	
Toluene	**J [0.0177]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0189]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0463**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**50.9**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**4220**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1010**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**5280**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.3 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*16.9 %*	*70-130*		"	"	"	"	*S-06*
AH-3 1-1.5' (6H28010-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	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		*93.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH63001	08/29/06	08/30/06	EPA 8015M	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 1-1.5' (6H28010-11) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EH63001	08/29/06	08/30/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.8 %*	*70-130*		"	"	"	"	
AH-4 0-1' (6H28010-13) Soil									
Benzene	**0.762**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**3.94**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**2.55**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**9.05**	0.0250	"	"	"	"	"	"	
Xylene (o)	**2.04**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*398 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*300 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3540**	50.0	mg/kg dry	5	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**10300**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**963**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**14800**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*30.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*18.9 %*	*70-130*		"	"	"	"	*S-06*
AH-4 1-1.5' (6H28010-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	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		*89.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH63001	08/29/06	08/29/06	EPA 8015M	
Carbon Ranges C12-C28	**208**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**73.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**281**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.2 %*	*70-130*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 0-1' (6H28010-16) Soil									
Benzene	**0.340**	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	EPA 8021B	
Toluene	**2.09**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.49**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**3.08**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.17**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*288 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*214 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**560**	50.0	mg/kg dry	5	EH63002	08/29/06	08/30/06	EPA 8015M	
Carbon Ranges C12-C28	**1460**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**108**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**2130**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*20.4 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*17.7 %*	*70-130*		"	"	"	"	*S-06*
AH-5 1-1.5' (6H28010-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH63004	08/29/06	08/30/06	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		*106 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EH63002	08/29/06	08/30/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.0 %*	*70-130*		"	"	"	"	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1' (6H28010-01) Soil									
Chloride	**429**	10.0	mg/kg	20	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**4.9**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-1 1-1.5' (6H28010-02) Soil									
Chloride	**62.1**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**1.7**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-1 2-2.5' (6H28010-03) Soil									
Chloride	**39.8**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**2.6**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-1 3-3.5' (6H28010-04) Soil									
Chloride	**43.8**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
AH-2 0-1' (6H28010-05) Soil									
Chloride	**408**	10.0	mg/kg	20	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**5.5**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-2 1-1.5' (6H28010-06) Soil									
Chloride	**176**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**9.9**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-2 2-2.5' (6H28010-07) Soil									
Chloride	**81.9**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**10.8**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-2 4-4.5' (6H28010-08) Soil									
Chloride	**26.0**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**5.7**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 5-5.5' (6H28010-09) Soil									
Chloride	**41.0**	5.00	mg/kg	10	EH63020	08/30/06	08/30/06	EPA 300.0	
AH-3 0-1' (6H28010-10) Soil									
Chloride	**523**	10.0	mg/kg	20	EH63020	08/30/06	08/30/06	EPA 300.0	
% Moisture	**1.5**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-3 1-1.5' (6H28010-11) Soil									
Chloride	**541**	10.0	mg/kg	20	EH63021	08/30/06	08/30/06	EPA 300.0	
% Moisture	**2.8**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-3 2-2.5' (6H28010-12) Soil									
Chloride	**508**	10.0	mg/kg	20	EH63021	08/30/06	08/30/06	EPA 300.0	
AH-4 0-1' (6H28010-13) Soil									
Chloride	**369**	10.0	mg/kg	20	EH63021	08/30/06	08/30/06	EPA 300.0	
% Moisture	**3.4**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-4 1-1.5' (6H28010-14) Soil									
Chloride	**36.3**	5.00	mg/kg	10	EH63021	08/30/06	08/30/06	EPA 300.0	
% Moisture	**7.2**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-4 2-2.5' (6H28010-15) Soil									
Chloride	**45.5**	5.00	mg/kg	10	EH63021	08/30/06	08/30/06	EPA 300.0	
AH-5 0-1' (6H28010-16) Soil									
Chloride	**244**	10.0	mg/kg	20	EH63021	08/30/06	08/30/06	EPA 300.0	
% Moisture	**9.8**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	
AH-5 1-1.5' (6H28010-17) Soil									
Chloride	**47.5**	5.00	mg/kg	10	EH63021	08/30/06	08/30/06	EPA 300.0	
% Moisture	**9.2**	0.1	%	1	EH63005	08/29/06	08/30/06	% calculation	

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Highlander Environmental Corp.	Project: Clayton Williams/SWR/Farnsworth Fed. B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 2-2.5' (6H28010-18) Soil									
Chloride	**197**	10.0	mg/kg	20	EH63021	08/30/06	08/30/06	EPA 300.0	

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63001 - Solvent Extraction (GC)										
Blank (EH63001-BLK1)				Prepared & Analyzed: 08/29/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.4*		*mg/kg*	*50.0*		*90.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.8*		"	*50.0*		*77.6*	*70-130*			
LCS (EH63001-BS1)				Prepared & Analyzed: 08/29/06						
Carbon Ranges C6-C12	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	441	10.0	"	500		88.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	927	10.0	"	1000		92.7	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.5*		"	*50.0*		*75.0*	*70-130*			
Calibration Check (EH63001-CCV1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	203		mg/kg	250		81.2	80-120			
Carbon Ranges C12-C28	246		"	250		98.4	80-120			
Total Hydrocarbons	449		"	500		89.8	80-120			
Surrogate: 1-Chlorooctane	*52.2*		"	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.0*		"	*50.0*		*88.0*	*70-130*			
Matrix Spike (EH63001-MS1)	**Source: 6H28009-06**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	539	10.0	mg/kg dry	524	ND	103	75-125			
Carbon Ranges C12-C28	489	10.0	"	524	ND	93.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1050	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	*62.2*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.4*		"	*50.0*		*107*	*70-130*			

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63001 - Solvent Extraction (GC)										
Matrix Spike Dup (EH63001-MSD1)	**Source: 6H28009-06**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	530	10.0	mg/kg dry	524	ND	101	75-125	1.68	20	
Carbon Ranges C12-C28	489	10.0	"	524	ND	93.3	75-125	0.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1020	10.0	"	1050	ND	97.1	75-125	0.976	20	
Surrogate: 1-Chlorooctane	*59.6*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.7*		*"*	*50.0*		*91.4*	*70-130*			
Batch EH63002 - Solvent Extraction (GC)										
Blank (EH63002-BLK1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.5*		*mg/kg*	*50.0*		*95.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.5*		*"*	*50.0*		*83.0*	*70-130*			
LCS (EH63002-BS1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	585	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	498	10.0	"	500		99.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1080	10.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	*59.4*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.5*		*"*	*50.0*		*99.0*	*70-130*			
Calibration Check (EH63002-CCV1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	204		mg/kg	250		81.6	80-120			
Carbon Ranges C12-C28	215		"	250		86.0	80-120			
Total Hydrocarbons	419		"	500		83.8	80-120			
Surrogate: 1-Chlorooctane	*55.3*		*"*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.8*		*"*	*50.0*		*91.6*	*70-130*			

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63002 - Solvent Extraction (GC)										
Matrix Spike (EH63002-MS1)	**Source: 6H29004-01**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	643	10.0	mg/kg dry	614	ND	105	75-125			
Carbon Ranges C12-C28	563	10.0	"	614	25.9	87.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	4.53		75-125			
Total Hydrocarbons	1210	10.0	"	1230	25.9	96.3	75-125			
Surrogate: 1-Chlorooctane	*59.3*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.9*		*"*	*50.0*		*91.8*	*70-130*			
Matrix Spike Dup (EH63002-MSD1)	**Source: 6H29004-01**			Prepared: 08/29/06 Analyzed: 08/30/06						
Carbon Ranges C6-C12	647	10.0	mg/kg dry	614	ND	105	75-125	0.620	20	
Carbon Ranges C12-C28	581	10.0	"	614	25.9	90.4	75-125	3.15	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	4.53		75-125		20	
Total Hydrocarbons	1230	10.0	"	1230	25.9	97.9	75-125	1.64	20	
Surrogate: 1-Chlorooctane	*60.3*		*mg/kg*	*50.0*		*121*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.7*		*"*	*50.0*		*95.4*	*70-130*			
Batch EH63004 - EPA 5030C (GC)										
Blank (EH63004-BLK1)				Prepared & Analyzed: 08/29/06						
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	*44.0*		*ug/kg*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.1*		*"*	*40.0*		*90.2*	*80-120*			
LCS (EH63004-BS1)				Prepared & Analyzed: 08/29/06						
Benzene	1.40	0.0250	mg/kg wet	1.25		112	80-120			
Toluene	1.48	0.0250	"	1.25		118	80-120			
Ethylbenzene	1.20	0.0250	"	1.25		96.0	80-120			
Xylene (p/m)	2.95	0.0250	"	2.50		118	80-120			
Xylene (o)	1.35	0.0250	"	1.25		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.1*		*ug/kg*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.2*		*"*	*40.0*		*108*	*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 EH63004 - EPA 5030C (GC)										
Calibration Check (EH63004-CCV1)				Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	46.9		ug/kg	50.0		93.8	80-120			
Toluene	50.9		"	50.0		102	80-120			
Ethylbenzene	55.2		"	50.0		110	80-120			
Xylene (p/m)	112		"	100		112	80-120			
Xylene (o)	54.7		"	50.0		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.3*		"	*40.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.8*		"	*40.0*		*112*	*80-120*			
Matrix Spike (EH63004-MS1)	**Source: 6H28010-02**			Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	1.24	0.0250	mg/kg dry	1.27	ND	97.6	80-120			
Toluene	1.36	0.0250	"	1.27	ND	107	80-120			
Ethylbenzene	1.27	0.0250	"	1.27	ND	100	80-120			
Xylene (p/m)	2.93	0.0250	"	2.54	ND	115	80-120			
Xylene (o)	1.34	0.0250	"	1.27	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.5*		*ug/kg*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.9*		"	*40.0*		*110*	*80-120*			
Matrix Spike Dup (EH63004-MSD1)	**Source: 6H28010-02**			Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	1.17	0.0250	mg/kg dry	1.27	ND	92.1	80-120	5.80	20	
Toluene	1.29	0.0250	"	1.27	ND	102	80-120	4.78	20	
Ethylbenzene	1.25	0.0250	"	1.27	ND	98.4	80-120	1.61	20	
Xylene (p/m)	2.74	0.0250	"	2.54	ND	108	80-120	6.28	20	
Xylene (o)	1.36	0.0250	"	1.27	ND	107	80-120	0.939	20	
Surrogate: a,a,a-Trifluorotoluene	*33.5*		*ug/kg*	*40.0*		*83.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.9*		"	*40.0*		*94.8*	*80-120*			

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

Project: Clayton Williams/SWR/Farnsworth Fed. B TB
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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 EH63005 - General Preparation (Prep)										
Blank (EH63005-BLK1)				Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	ND	0.1	%							
Duplicate (EH63005-DUP1)	**Source: 6H28009-01**			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	2.1	0.1	%		2.5			17.4	20	
Duplicate (EH63005-DUP2)	**Source: 6H28010-17**			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	9.5	0.1	%		9.2			3.21	20	
Duplicate (EH63005-DUP3)	**Source: 6H29004-03**			Prepared: 08/29/06 Analyzed: 08/30/06						
% Moisture	8.8	0.1	%		7.3			18.6	20	
Batch EH63020 - Water Extraction										
Blank (EH63020-BLK1)				Prepared & Analyzed: 08/30/06						
Chloride	ND	0.500	mg/kg							
LCS (EH63020-BS1)				Prepared & Analyzed: 08/30/06						
Chloride	10.5	0.500	mg/kg	10.0		105	80-120			
Calibration Check (EH63020-CCV1)				Prepared & Analyzed: 08/30/06						
Chloride	9.95		mg/L	10.0		99.5	80-120			
Duplicate (EH63020-DUP1)	**Source: 6H28009-02**			Prepared & Analyzed: 08/30/06						
Chloride	247	10.0	mg/kg		273			10.0	20	
Duplicate (EH63020-DUP2)	**Source: 6H28010-01**			Prepared & Analyzed: 08/30/06						
Chloride	371	10.0	mg/kg		429			14.5	20	

Highlander Environmental Corp.	Project: Clayton Williams/SWR/Farnsworth Fed. B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2724	
Midland TX, 79705	Project Manager: Ike Tavarez	

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 EH63020 - Water Extraction										
Matrix Spike (EH63020-MS1)		**Source: 6H28009-02**		Prepared & Analyzed: 08/30/06						
Chloride	462	10.0	mg/kg	200	273	94.5	80-120			
Matrix Spike (EH63020-MS2)		**Source: 6H28010-01**		Prepared & Analyzed: 08/30/06						
Chloride	662	10.0	mg/kg	200	429	116	80-120			
Batch EH63021 - Water Extraction										
Blank (EH63021-BLK1)				Prepared & Analyzed: 08/30/06						
Chloride	ND	0.500	mg/kg							
LCS (EH63021-BS1)				Prepared & Analyzed: 08/30/06						
Chloride	11.0	0.500	mg/kg	10.0		110	80-120			
Calibration Check (EH63021-CCV1)				Prepared & Analyzed: 08/30/06						
Chloride	10.1		mg/L	10.0		101	80-120			
Duplicate (EH63021-DUP1)		**Source: 6H28010-11**		Prepared & Analyzed: 08/30/06						
Chloride	553	10.0	mg/kg		541			2.19	20	
Duplicate (EH63021-DUP2)		**Source: 6H28012-04**		Prepared & Analyzed: 08/30/06						
Chloride	3.95	5.00	mg/kg		4.51			13.2	20	J
Matrix Spike (EH63021-MS1)		**Source: 6H28010-11**		Prepared & Analyzed: 08/30/06						
Chloride	787	10.0	mg/kg	200	541	123	80-120			S-07
Matrix Spike (EH63021-MS2)		**Source: 6H28012-04**		Prepared & Analyzed: 08/30/06						
Chloride	105	5.00	mg/kg	100	4.51	100	80-120			

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Notes and Definitions

S-07	Recovery outside Laboratory historical or method prescribed limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Report Approved By: Raland K Tuttle Date: 8/31/2006

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: Clayton Williams / Southwest Royalty

SITE MANAGER: Ike Tavarez

PROJECT NO.: 2724

PROJECT NAME: Swr/Farnsworth Fed. B #5 T8 Lea Co. NM

LAB I.D. NUMBER 6H28010	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	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. 608/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
-01	8-25-06		S		X	AH-1 0-1	1				X		X		X											X			
-02			S		X	AH-1 1-1.5	1				X		X		X											X			
-03			S		X	AH-1 2-2.5	1				X				X											X			
-04			S		X	AH-1 3-3.5	1				X															X			
-05			S		X	AH-2 0-1	1				X		X		X											X			
-06			S		X	AH-2 1-1.5	1				X				X											X			
-07			S		X	AH-2 2-2.5	1				X				X											X			
-08			S		X	AH-2 4-4.5	1				X		X		X											X			
-09			S		X	AH-2 5-5.5	1				X															X			
-10			S		X	AH-3 0-1	1				X		X		X											X			

RELINQUISHED BY: (Signature) Date: 8/25/06 Time: 3:25

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) JEREMY / JOSH Date: 8-25-06 Time:

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

RECEIVING LABORATORY: DLT

ADDRESS:

CITY: Odessa STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Jaime Monreal

DATE: 08-28-06 TIME: 1555

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.0°C 4oz glass onice w/labels no seals

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

REMARKS: Run deeper depth if TDH exceeds 5,000 mg/kg

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.

Kolt Harrison

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: Southwest Royalty / Clayton Williams
SITE MANAGER: Ike Tavarez
PROJECT NO.: 2724
PROJECT NAME: Swr / Farnsworth Fed. # 1 TO Lea Co. NM

LAB I.D. NUMBER (6H2806)	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	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, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	8015 MOD. TX1005
-11	8-25-06		S		X	AH-3 1-1.5	1				X		X		X											X				
-12			S		X	AH-3 2-2.5	1				X															X				
-13			S		X	AH-4 0-1	1				X		X		X											X				
-14			S		X	AH-4 1-1.5	1				X		X		X											X				
-15			S		X	AH-4 2-2.5	1				X															X				
-16			S		X	AH-5 0-1	1				X		X		X											X				
-17			S		X	AH-5 1-1.5	1				X		X		X											X				
-18			S		X	AH-5 2-2.5	1				X															X				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) — Date: 8/28/06 Time: 3:55
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) Jeremy / Josh — Date: 8-25-06 Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RECEIVING LABORATORY: ELT
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 08-28-06 TIME: 1555

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4.0°C
4 oz glass w/ ice w/labels no seals

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

REMARKS: Run deeper depths of TPH
Bkgrnd 5,000 mg/kg

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 Env.

Date/ Time: 08-28-04 @ 1555

Lab ID #: 6H28010

Initials: JMM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

APPENDIX C

NMOCD Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company SOUTHWEST ROYALTIES, INC.	Contact DAWN M. HOWARD
Address 6 DESTA DR, ST 2100, MIDLAND, TX 79705	Telephone No. 432/688-3267
Facility Name FARNSWORTH FEDERAL B #5	Facility Type OIL WELL

Surface Owner VARIOUS -SEE ATTACHED	Mineral Owner	Lease No. LC030180B

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	26S	37E	1980	S	660	W	LEA

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release OIL	Volume of Release Unknown	Volume Recovered 125 (well)+145 (bttry)
Source of Release Well blow out at well head, tanks overflowed & small leaks in tanks	Date and Hour of Occurrence 8/23/06 11:30 A.M. CT	Date and Hour of Discovery 8/23/06 11:30 A.M. CT
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? PAT'S VOICEMAIL 505/390-0720 EXT 109	
By Whom? DAWN HOWARD	Date and Hour 8/23/06 11:30 A.M. CT	
Was a Watercourse Reached? ☐ Yes x No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow off the well at the wellhead. The tanks were also full and overflowed and were found to have small leaks. There were actually two areas of contamination being 1) approximately 2 to 4 acres of over spay from the wellhead and 2) the battery –on the pad, overdrive area and extending into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The well was brought under control by choke installation. All free standing oil was vacuumed up (125 BF at the well site and 145 BF at the battery). All fluid in tanks drained. Highlander Environmental was contacted and is currently on location assessing damages, taking samples and will be providing their recommended remedial actions. Clean up will strictly adhere to NMOCD Guidelines for Remediation of Leaks, Spills and Releases.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Dawn M. Howard	Approved by District Supervisor:	
Title: Operations Assistant	Approval Date:	Expiration Date:
E-mail Address: dhoward@claytonwilliams.com	Conditions of Approval:	Attached ☐
Date: 8/24/06 Phone: 432/688-3267		

* Attach Additional Sheets If Necessary

SITE INFORMATION

Type of Report: ASSESSMENT AND WORK PLAN

General Site Information:	
Site:	**Farnsworth Federal B #5 and Farnsworth Federal B Tank Battery**
Company:	**Southwest Royalties, Inc.**
Well Location:	**Section 7, T26S, R37E, Unit Letter L**
Tank Battery Location:	**Section 7, T26S, R37E, Unit Letter L**
Lease Number:	**LC 030180B**
County:	**Lea**
Spill Area GPS:	**32.05586, 103.20828**
Surface Owner:	**El Paso**
Mineral Owner:	-
Directions:	At Jal, New Mexico, intersection of 3 Rd. Street and Hwy. 128, go 6.1 miles (south) on
	3rd. Street, Turn left (east) into lease road and go 1.5 miles to Y, at Y turn left (south) and
	go 1.4 miles to tank battery on right side or 1.6 miles to well #5 on left side

Release Data:	
Date Released:	8/23/2006
Type Release:	oil
Source of Contamination:	well blowout at well #5 and tank battery tank overflowed
Fluid Released:	unknown
Fluids Recovered:	125 barrels (well) and 145 barrels (tank battery)

Official Communication:			
Name:	Dawn M. Howard		Ike Tavarez
Company:	Southwest Royaties, Inc.		Highlander Environmental Corp.
Address:	6 Desta Dr., St 2100		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79705		Midland, Texas
Phone number:	(432) 688-3267		(432) 682- 4559
Fax:	(432) 688-3250		(432) 682- 3946
Email:	dhoward@claytonwilliams.com		itavarez@hec-enviro.com

Ranking Criteria

Depth to Groundwater:	*Ranking Score*	*Site Data*
<50 ft	20	
50-99 ft	10	
>100 ft.	**0**	*Greater 100'*

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:	**10**

Acceptable Soil RRAL (mg/kg)		
Benzene	*Total BTEX*	*TPH*
10	**50**	**5,000**