2R - 56

REPORTS DATE:

2006

2R0056

devon
ENERGY CORPORATION

Avalon Hills
7 Fed. COM # 3
Delineation Report
OCD Case No. 2R0056

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
281.394.2050
whearth@msn.com

devon

Office 405.228.8327
Fax 405.552.7839
Chris.biagi@dvn.com

Devon Energy Corporation
20 North Broadway
Oklahoma City, Oklahoma 73102-8260

September 8, 2006

New Mexico Oil Conservation Division
Attn: Mr. Wayne Price
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

RE: Avalon Hills 7 FED COM 3
Eddy County, New Mexico
OCD Case No. 2R0056

Dear Mr. Price:

Enclosed is the Delineation Report for the above referenced site in Eddy County, New Mexico. The report and delineation work were completed for Devon Energy Corporation by Whole Earth Environmental of Katy, Texas. The report summarizes the activities conducted at the site and includes recommendations for future remedial activities. Devon will commence implementation of the remedial plan upon your approval.

Please feel free to contact me either by phone or email to discuss this project or if I can answer any questions you may have regarding our findings. I appreciate your time and thank you for your attention to this project.

Sincerely,

Chris Biagi, REM
Senior Remediation Specialist

Enclosure

cc: Mr. Jerry Blakely, U.S. Department of the Interior, Bureau of Land Management, 620 East Greene Street, Carlsbad, New Mexico 88220

Mr. Tim Gum, New Mexico Oil Conservation Division, 1301 West Grand Avenue, Artesia, New Mexico 88210

Mr. Ron Truelove, Devon Energy, Western Division EHS

Devon Ener Company
Avalon Hills 7 Fed. COM # 3
Soil Borings Analytical Summary

XYLENE

BH-1							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'	ND	ND	ND	ND	ND	118.00	1.000
10'	ND	ND	ND	ND	ND	113.00	1.200
15'	ND	ND	ND	ND	ND	106.00	1.200
20'	ND	ND	ND	ND	ND	50.80	1.100
25'	ND	ND	ND	ND	ND	100.00	0.910
30'	ND	ND	ND	ND	ND	50.40	0.470
35'	ND	ND	ND	ND	ND	84.70	1.830
40'	Cavern						
45'	ND	ND	ND	ND	ND	**2,280.00**	6.970
50'	**5,820**	**18.6**	**227**	48.8	**466**	**27,300.00**	80.900
55'	ND	0.148	0.671	0.125	1.339	**17,700.00**	54.700
60'							
65'	ND	0.113	0.726	0.117	1.135	**7,390.00**	23.100
70'	*112*	0.299	3.1	1.01	8.67	**1,510.00**	9.400
75'							
80'	*197*	0.134	1.05	0.249	2.094	**1,710.00**	5.890
85'	ND	ND	ND	ND	ND	39.40	0.962
90'	ND	ND	ND	ND	ND	108.00	0.962
95'	ND	ND	ND	ND	ND	54.40	1.420
100'	ND	ND	ND	ND	ND	282.00	2.000

BH-2							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'	ND	ND	ND	ND	ND	6.30	0.300
10'	ND	ND	ND	ND	ND	37.90	0.850
15'	ND	ND	ND	ND	ND	93.30	0.880
20'	ND	ND	ND	ND	ND	81.00	0.710
25'	ND	ND	ND	ND	ND	97.80	0.924
30'	ND	ND	ND	ND	ND	61.80	1.100
35'	ND	ND	ND	ND	ND	17.30	0.490
40'	ND	ND	ND	ND	ND	42.00	0.808
45'	ND	ND	ND	ND	ND	45.1	0.630
50'	ND	ND	ND	ND	ND	17.60	0.910
55'	ND	ND	ND	ND	ND	11.80	0.859
60'	ND	ND	ND	ND	ND	33.30	1.520
65'	ND	ND	ND	ND	ND	31.80	2.480
70'	ND	ND	ND	ND	ND	271.00	3.430
75'	ND	ND	ND	ND	ND	48.90	0.823
80'							
85'							
90'							
95'							
100'							

BH-3							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'							
10'	ND	ND	ND	ND	ND	12.10	0.366
15'							
20'	ND	ND	ND	ND	ND	32.60	0.442
25'							
30'	ND	ND	ND	ND	ND	24.40	0.496
35'							
40'	ND	ND	ND	ND	ND	14.50	0.432
45'							
50'	ND	ND	ND	ND	ND	12.80	0.537
55'							
60'	ND	ND	ND	ND	ND	14.30	0.367
65'							
70'	ND	ND	ND	ND	ND	17.80	0.434
75'							
80'	ND	ND	ND	ND	ND	20.60	0.585
85'							
90'	ND	ND	ND	ND	ND	45.60	0.972
95'							
100'							
105'							
110'							
115'							
120'							

BH-3A							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'							
10'	ND	ND	ND	ND	ND	32.60	0.395
15'							
20'	ND	ND	ND	ND	ND	43.50	0.756
25'							
30'	ND	ND	ND	ND	ND	31.10	0.702
35'							
40'	ND	ND	ND	ND	ND	30.50	0.812
45'							
50'	ND	ND	ND	ND	ND	26.50	0.750
55'							
60'	ND	ND	ND	ND	ND	39.40	0.697
65'							
70'	ND	ND	ND	ND	ND	38.00	0.936
75'							
80'	ND	ND	ND	ND	ND	48.00	0.736
85'							
90'	ND	ND	ND	ND	ND	72.70	0.964
95'							
100'	ND	ND	ND	ND	ND	81.90	1.120
105'							
110'							
115'							
120'	ND	ND	ND	ND	ND	26.50	1.030

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Soil Borings Analytical Summary

BH-4							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'							
10'	ND	ND	ND	ND	ND	6.06	0.299
15'							
20'	ND	ND	ND	ND	ND	21.00	0.511
25'							
30'	ND	ND	ND	ND	ND	6.86	0.354
35'							
40'	ND	ND	ND	ND	ND	ND	0.220
45'							
50'	ND	ND	ND	ND	ND	26.50	0.750
55'							
60'							
65'	ND	ND	ND	ND	ND	91.20	0.832
70'							
75'	ND	ND	ND	ND	ND	176.00	1.060
80'							
85'	ND	ND	ND	ND	ND	189.00	1.180
90'							
95'	ND	ND	ND	ND	ND	184.00	1.120

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Munsell Soil Classification Table

BH-1

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
4-6	5YR5/8	Yellowish red silt loam	Yes
14-16	5YR 5/6	Yellowish red silt loam	Yes
18-20	5YR 5/8	Yellowish red clay loam – silty clay loam	Yes
24-26	5YR 6/7	Reddish yellow loam	Yes
28-30	5YR 7/4	Light reddish brown sandy loam	Yes
45	7.5 YR 6/4	Reddish brown sandy loam	Yes
50	7.5YR 6/4	Light brown sandy clay loam	Little
65	10YR 6/4	Light yellowish brown sandy loam	Little
70	10YR 6/4	Light yellowish brown clay	Little
80	7.5 YR 6/4	Light brown loamy sand	No
90	2.5 YR 6/4	Red fine sand	No

BH-3

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
50	5YR5/6	Yellowish red silty clay	Little
85	7.5 YR 5/6	Brown	Little
97		Blocks of dolomite and clay loam	

BH-3A

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
10		Dolomite	Yes
20	10 YR 8/2	Blocks of dolomite and very pale brown sand	Yes
30	10 YR 8/2	Blocks of dolomite and very pale brown sand	Yes
40	5 YR 4/6	Blocks of dolomite and reddish brown sand	Yes
50		Gravel	
60	10 YR 7/3-6/3	Pale brown loamy sand	Yes
70	5 YR 4/6	Yellowish red silt loam	Little
80	5 YR 5/8	Yellowish red silt clay loam	Very little
90	2.5 YR 6/3	Light yellowish brown clay	No
100	2.5 YR 6/3	Light yellowish brown silt loam	Very little
120	10 YR 5/4	Yellowish brown clay loam	No

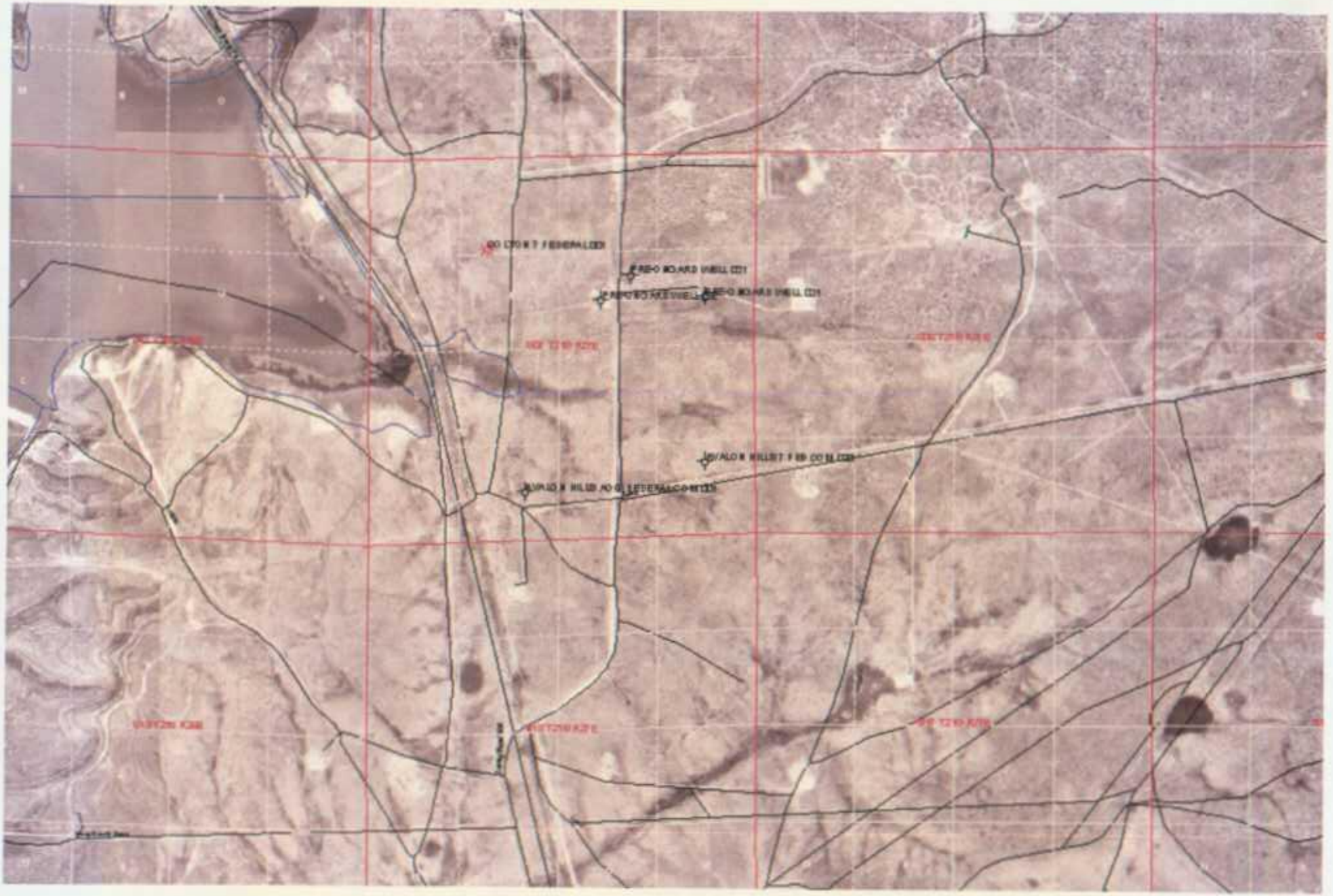
BH-4

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
10		Dolomite	Yes
20		Dolomite	Yes
30	10 YR 8/2	Very pale brown very fine sand	Yes
40	10 YR 7/3	Very pale brown loamy sand	Yes
65	2.5 YR 4/6	Red sandy loam	No
75	2.5 Y 6/4	Light yellowish brown silt loam	Little
85	2.5 Y 6/2	Light brownish gray sandy clay loam	No
95	2.5 Y 6/3	Light yellowish brown loamy sand	No

Devon Energy Company
Avalon Hills 7 Fed. COM 3
NM WQCC Groundwater Standards
Analysis Summary (mg/L)

Analyte	NM WQCC Std.	BH-1	BH-2	BH-4
Arsenic	0.1000	N / D	N / D	N / D
Barium	1.0000	0.374	0.299	0.075
Cadmium	0.0100	N / D	N / D	N / D
Chromium	0.0500	N / D	N / D	N / D
Cyanide	0.2000	N / T	N / T	N / T
Fluoride	1.6000	N / T	N / T	N / T
Lead	0.0500	N / D	N / D	N / D
Total Mercury	0.0020	N / D	0.0003	0.0003
Nitrate	10.0000	N / T	N / T	N / T
Selenium	0.0500	N / D	N / D	N / D
Silver	0.0500	N / D	N / D	N / D
Uranium	0.0300	N / T	N / T	N / T
Radioactivity	30 pCi/L	N / T	N / T	N / T
Benzene	0.0100	**2,540**	N / D	N / D
Polychlorinated biphenols	0.0010	N / D	N / D	N / D
Toluene	0.7500	**10,200**	N / D	N / D
Carbon Tetrachloride	0.0100	N / D	N / D	N / D
1,2-dichloroethane	0.0100	N / D	N / D	N / D
1,1-dichloroethylene	0.0050	N / D	N / D	N / D
1,1,2,2-tetrachloroethylene	0.0200	N / D	N / D	N / D
1,1,2-trichloroethylene	0.1000	N / D	N / D	N / D
Ethylbenzene	0.7500	**2,740**	N / D	N / D
Total Xylenes	0.6200	**17**	N / D	N / D
Methylene chloride	0.1000	N / D	N / D	N / D
Chloroform	0.1000	N / D	N / D	N / D
1,1-Dichloroethane	0.0250	N / D	N / D	N / D
Ethylene dibromide	0.0001	N / T	N / T	N / T
1,1,1-Trichloroethane	0.0600	N / D	N / D	N / D
1,1,2-Trichloroethane	0.0100	N / D	N / D	N / D
1,1,2,2-Tetrachloroethane	0.0100	N / D	N / D	N / D
Vinyl chloride	0.0010	N / D	N / D	N / D
Total napthalene + monomethylnapthalenes	0.0300	N / D	N / D	N / D
Benzo-a-pyrene	0.0007	N / D	N / D	N / D
Chloride	250	**52,800**	**372**	**797**
Copper	1.0000	N / T	N / T	N / T
Iron	1.0000	N / T	N / T	N / T
Manganese	0.2000	N / T	N / T	N / T
Phenols	0.0050	N / T	N / T	N / T
Sulfate	600.0000	N / T	N / T	N / T
TDS	1,000	**76,300**	**3,420**	**2,540**
Zinc	10.0000	N / T	N / T	N / T
pH	6-9	N / T	N / T	N / T
Aluminum	5.0000	N / T	N / T	N / T
Boron	0.7500	N / T	N / T	N / T
Cobalt	0.0500	N / T	N / T	N / T
Molybdenum	1.0000	N / T	N / T	N / T
Nickel	0.2000	N / T	N / T	N / T

Devon Avalon Lake Blowout



Oil Conservation Division

MapNotes

DrawnBy

10/19/2006 2:35:54 PM

Devon Energy Site
Avalon Hills
Whole Earth Environmental
2103 Arbor Cove
Katy, Texas 77494

Boring number	Latitude	Longitude	Mean Sea Level Elevation
BH-1	32° 29.4066656'	104° 13.361357'	3215.23'
BH-2	32° 29.3891898'	104° 13.332315'	3215.49'
BH-3	32° 29.3639943'	104° 13.533745'	3195.37'
BH-4	32° 29.3823505'	104° 23.384612'	3214.63'

Notes:

1.Horizontal Data referenced to United States Coast and Geodetic Survey Tri-Station named "Carlsbad" set in 1922. The Coordinates are given in Latitude and Longitude.
2.Vertical Data referenced to National Geodetic Survey Benchmark designated "D-345". Vertical Data is NAVD 88 Datum. All elevations taken at land surface at bore hole locations.

ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

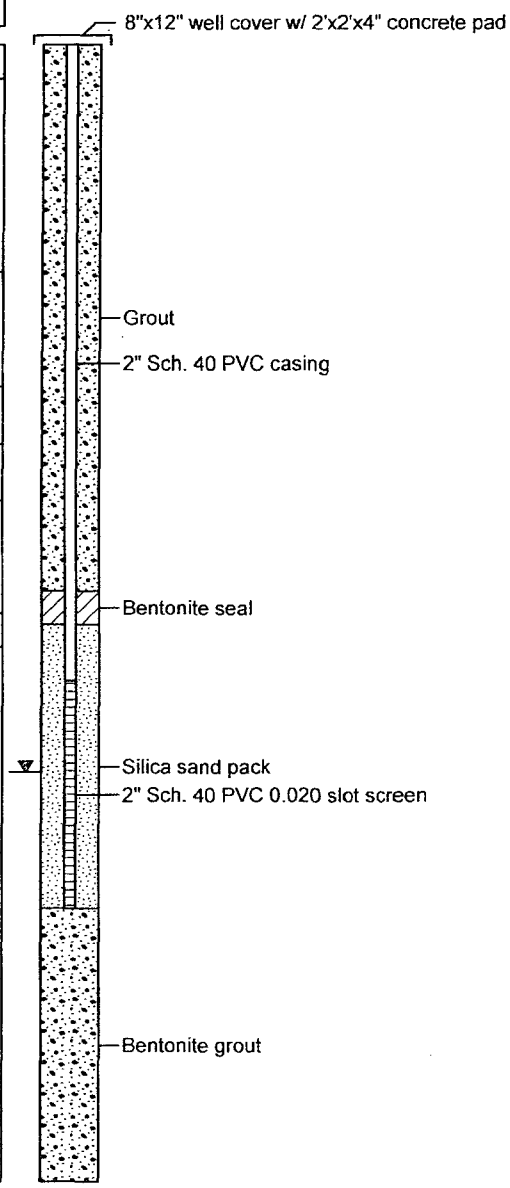
Log of Boring Devon Energy Borehole 1

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-17-06 (0800)	Logged By	: Mort Bates
Drill End	: 07-18-06 (1000)		
Boring Location	: N32°29.370', W104°13.526'		
Site Location	: *T21S, R27E, Sec. 07*		
Auger Type	: 4¼ Hollow		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Fill, imported caliche
5		CL	Clay, loose, red, dry
20		CL	Clay w/ caliche, firm, tan & white, dry
30		CL	Clay, loose, red, dry
35		SS	Sandstone, firm, tan, dry
40		SS	Sandstone, hard, tan, dry
50		CL	Sandy clay w/ cemented gravel, firm
55		CL	Sandy clay w/ cemented gravel, firm
70		CL	Clay, loose, greyish green, moist
75		CL	Clay, stiff, red, moist
95		SM	Silty sand, loose, reddish tan
100			Total Depth 100'
			Water Level 64'
110			

BH-1



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Professional Engineering Land Surveying
Water Resources Environmental Science

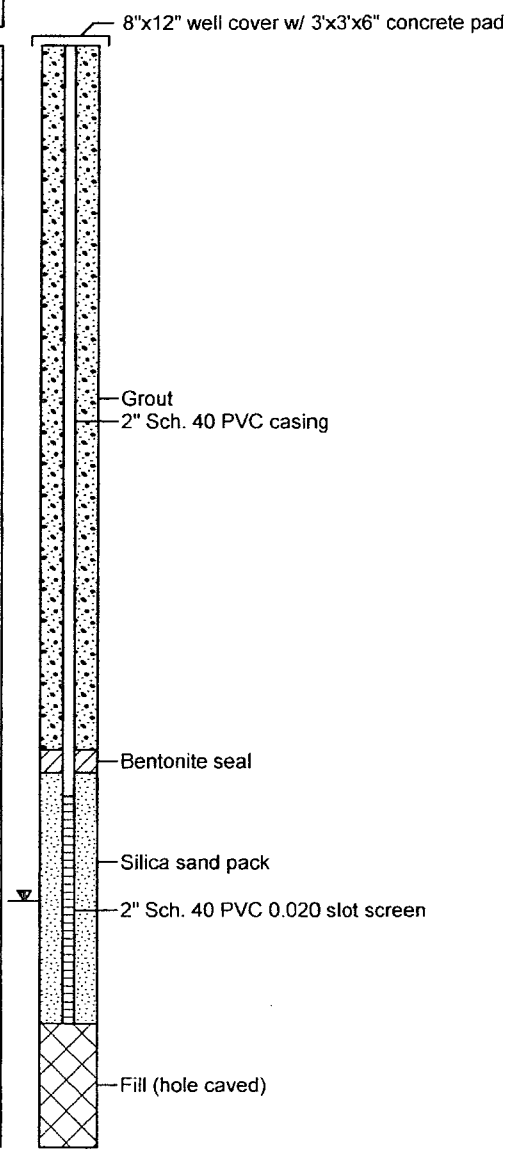
Log of Boring Devon Energy Borehole 2

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-19-06 (1100)	Logged By	: Mort Bates
Drill End	: 07-26-06 (1300)		
Boring Location	: Southeast of drilling pad		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: 4¼ Hollow		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Fill caliche pad
5		CL	Clay, loose to firm, red, dry
70		SS	Sandstone, firm, reddish tan, dry
75		LS	Limestone, hard, grey, dry
85		SC	Clayey sand, loose, red, dry
90		SC	Clayey sand, loose, reddish, tan, damp
100			Total Depth 97'
			Water Level 75.16'
105			Note: 0' to 67' Atkins auger drill, 67' to 97' drilled with M&M drill rig.

BH-2



ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

Log of Boring Devon Energy Borehole 3

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-26-06 (1300)	Logged By	: Mort Bates
Drill End	: 07-27-06 (1600)		
Boring Location	: 200'W of M/W #2		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air drilled w/M&M		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Caliche fill
5		LS	Limestone, hard, gray, dry
10		LS	Broken limestone w/ layer of clayey sand, firm, grey, dry
25		SM	Silty sand, loose, reddish tan, dry
30		LS	Broken limestone, firm, grey, dry
40		SM	Silty sand, loose, reddish tan, dry
		LS	Broken limestone, firm, grey, dry
45		SM	Silty sand, loose, yellowish tan, dry
50		SS	Sandstone, hard, light tan, dry
65		LS	Limestone, hard, grey, dry
75		LS	Limestone w/ silty sand, firm, grey & tan, dry
85		SS	Sandstone w/ silty sand, firm, reddish brown, dry
90			Lost all drilling returns, may be in a cavern. Taken drill stem to 110' and pulled out of the hole.
110			Total Depth 110'

BH-3

Note: Soil bore was drilled 110' with air by M&M Excavating. After pulling drill stem from the hole, the hole caved in from 68' to 110'.

ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying Water Resources Environmental Science

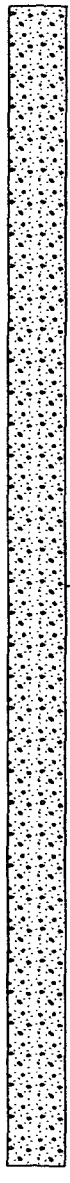
Log of Boring Devon Energy Borehole 3A

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-28-06 (1050)	Logged By	: Mort Bates
Drill End	: 08-02-06		
Boring Location	: *75'W of Borehole #3*		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air & auger		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Caliche w/silty sand, firm, white & tan, dry
5		LS	Broken limestone, hard, grey, dry
10		SS	Sandstone, hard, yellowish tan, dry
15		SS	Sandstone, hard, tan, dry
20			
25			
30		SS	Sandstone w/silty clay, hard, reddish tan, dry
35			
40		SS	Sandstone, hard, red & tan, dry
45		CL	Clay, loose, greenish gray, damp
50		CL	Clay, loose, red, damp
55		SS	Cavernous sandstone, firm, tan, dry
60			May be cavern? Lost drill returns.
65		CL	Clay, stiff, red, damp
70			
75			
80		CL	Sandy clay, loose, greyish tan, damp
85			
90		CL	Sandy clay, firm, greyish green, damp
95			
100		CL	Silty clay, soft, greyish green, damp
105		CL	Silty clay, hard, greyish green, dry
110			
115			
120			
125			
130			
135			
140			

BH-5



Cement grout (borehole plugged)

Total Depth 130'
Borehole dry
Note: M&M air drill from 0' to 65', Atkins auger drill from 65' to 130'.

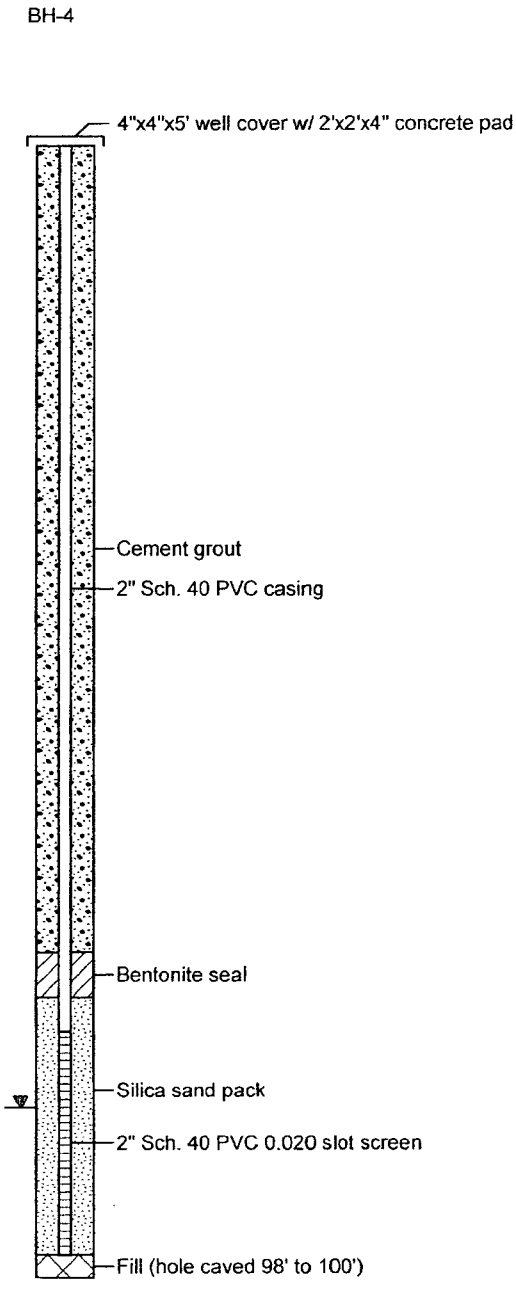
ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

Log of Boring Devon Energy Borehole 4

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-28-06 (0750)	Logged By	: Mort Bates
Drill End	: 07-29-06 (1500)		
Boring Location	: 700'W of Borehole #3		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air & auger		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0		SM	Silty sand w/caliche, loose, brown & white, dry
5			Caliche, firm, light tan, dry
10			
		SS	Sandstone w/caliche, hard, pink, dry
15		LS	Limestone, hard, grey, dry
20		LS	Limestone w/ silty sand, hard, pink & grey, dry
25			
30		SS	Sandstone, hard, tan, dry
35			
40		SS	Sandstone, caverns, firm, tan, dry
45		CL	Clay, stiff, red, damp
50			
55			
60			
65			
70			
75		SC	Sandy clay, firm to soft, greyish tan, damp
80			
85			
90			
95		SM	Silty sand, soft, grey, wet
100			Total Depth 100' Water Level 84.78'
105			
110			Note: M&M drilled w/air from 0' to 48', Atkins drilled w/auger from 48' to 100'



Executive Summary
Avalon Hills 7 Fed COM # 3
Delineation Project
OCD Case No. 2R0056

Location

The Devon Energy Company (Devon) Avalon Hills 7 Fed COM #3 (AH7) site is located on BLM land approximately four miles north of the City of Carlsbad in Eddy County, New Mexico. The primary land use is for cattle grazing. Oil and gas operations are also common in the area. The area is semi-arid with a net precipitation / evaporation amount of –73" per year. The legal description of the AH7 site is Section 7, Township 21 South, Range 27 East at an approximate elevation of 3,200 feet (ft) above mean sea level.

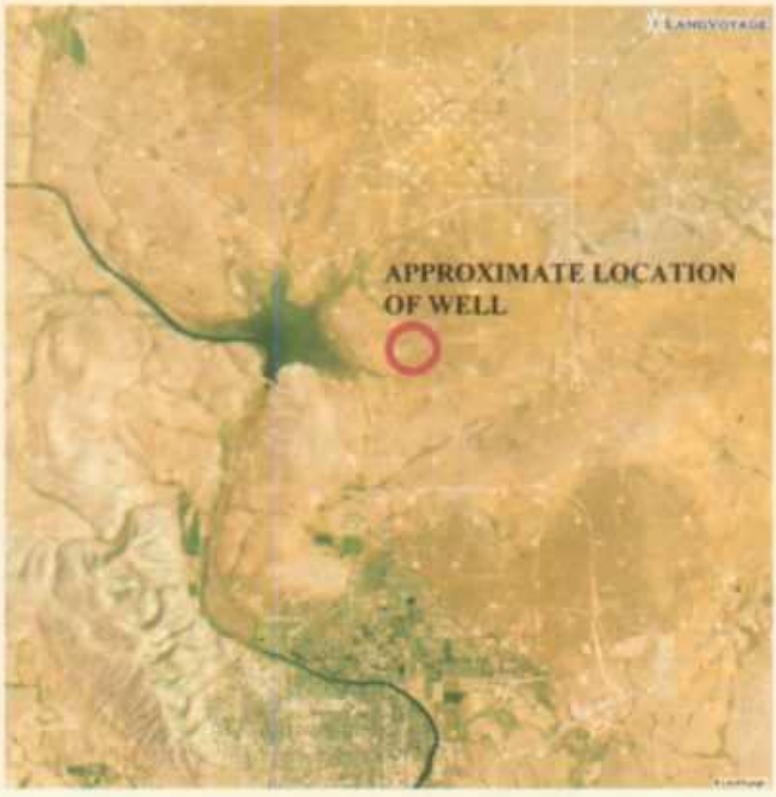


Figure 1 - Location of the Avalon Hills 7 Fed Com #3 well
Approximately 4 miles north of Carlsbad and east of Lake Avalon

Hydrogeology

The most important aquifer in the area is the Capitan aquifer which provides the water supply for Carlsbad from a well field located west of the Pecos River near the Guadalupe Mountains. The Capitan aquifer is considered a single hydrological unit and consists of the Capitan Reef complex which is composed of the Capitan and Goat Seep Limestones and the Carlsbad facies of the Artesia Group. This Reef complex extends in an arc through southeastern New Mexico and southwestern Texas following the rim of the Delaware Basin. In New Mexico, the arc of the Capitan reef extends from the southwest of Carlsbad to the southeast of Jal (Figure 2). Near Carlsbad, the thickness of the aquifer is about 1600 ft and lies below the alluvium in the valley. The main recharge for the aquifer is from the Guadalupe Mountains and Dark Canyon through fractures and dissolution holes. Secondary recharge also occurs as leakage from Lake Avalon.

The quality of the water in the Capitan aquifer decreases towards the east. Near Carlsbad the chloride content is about 200 mg/l while the North Cedar Hills well, about 1 mile NE from the AH7 site, has a chloride content of 13,800 mg/l (Hiss, 1973). Average hydraulic conductivity in the same area is 2.4 feet/day (Huff, 1997) and aquifer thickness is approximately 2,000 ft (Hiss, 1975).

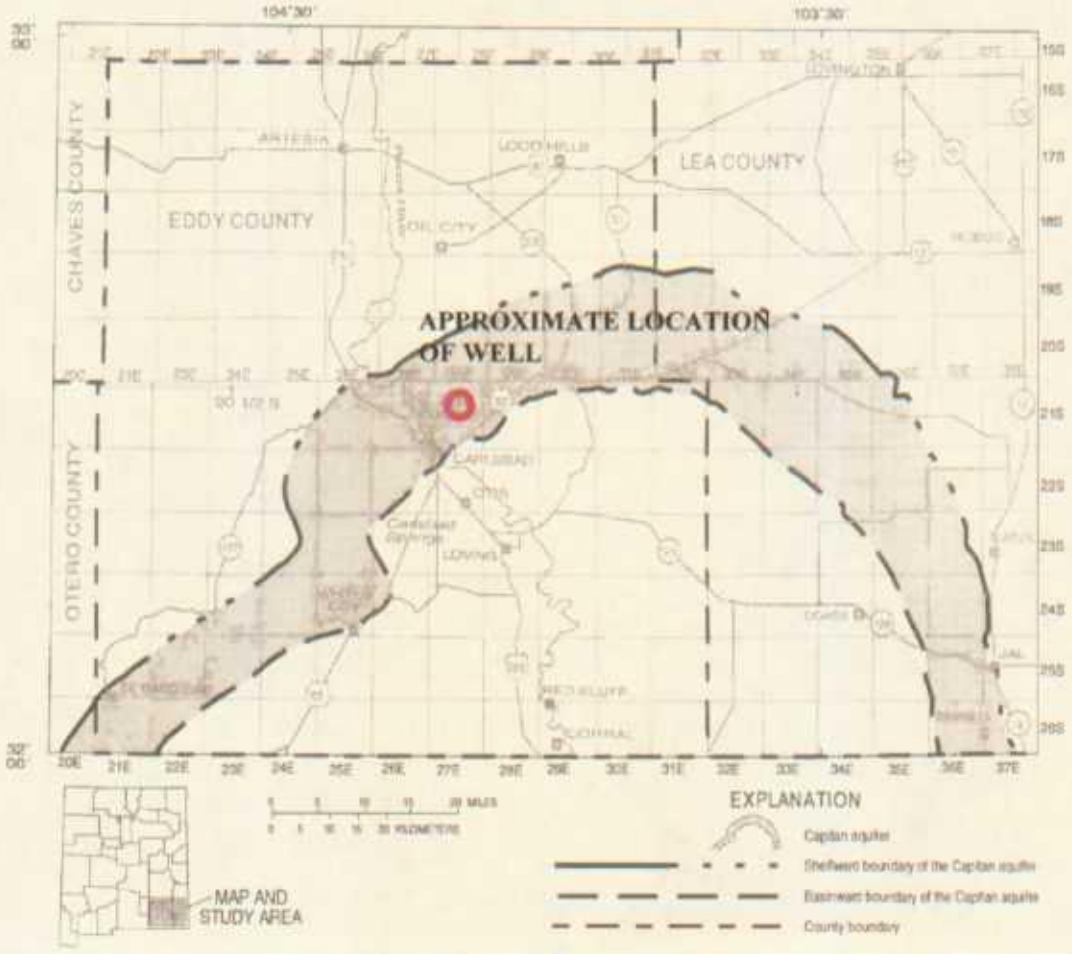


Figure 2 - Location of the Capitan Aquifer in southeastern New Mexico (Huff, 1997)

Groundwater Flow Direction

The groundwater flow direction is critical for the evaluation of the potential threat to groundwater quality caused by the AH7 well control situation. The overall groundwater flow direction in the Capitan aquifer is towards the east. However, in the Carlsbad area the incision of the Pecos River, the presence of Lake Avalon, the development of petroleum resources and local groundwater withdrawal by pumping have influenced the groundwater flow regime resulting in flow directions ranging from east to southwest (Uliana, 2001).

Results of a review of groundwater data provided by the USGS (Huff, 1997) (Table 1 and Figure 3) and the Office of the State Engineer (Table 2 and Figure 3) was not conclusive, but indicated that the most likely direction of ground water flow at the AH7 site would be between the east and the south.

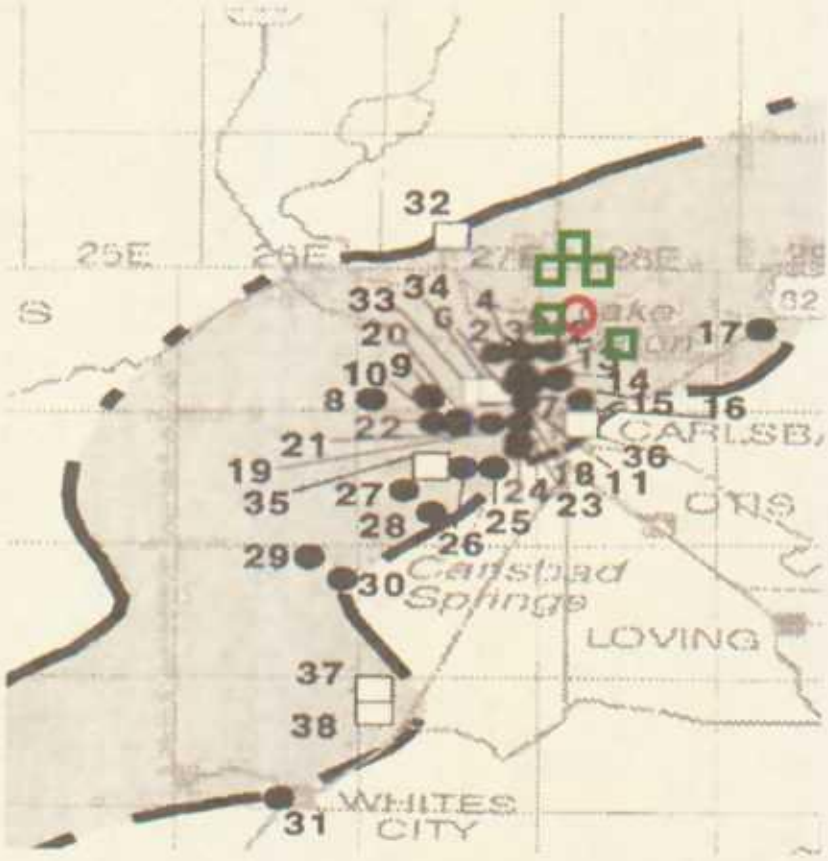


Figure 3 - Location of the wells used to determine groundwater flow directions in the area. Black dots are from Groundwater Site Inventory database (Huff, 1997) with water levels from 1978 and 1993. The green squares are from the website of the Office of the State Engineer (Table 2).
All locations are approximate. The red circle is the approximate location of the AH7 well site.

Event History

A loss of pressure control at the AH7 occurred at approximately 11:00 PM on June 19, 2006. Gas pressurized fluids escaped from what is believed to be a damaged section of the intermediate casing string at an approximate depth of 100 ft below ground surface. This resulted in a release of natural gas and minor amounts of drilling mud over an area extending approximately 175 ft south, 150 ft east, 50 ft north and 150 ft west of the AH7 wellhead. The well was brought under control on the morning of June 21, 2006. Plugging and abandonment of the AH7 well was completed on the morning of June 26, 2006.

Approximately 5 to 10 barrels of drilling mud surfaced near the wellhead. No liquid hydrocarbons were observed within the vicinity of the AH7 wellhead.

Investigation Plan Summary

A delineation protocol, PR-54, was submitted to the NMOCD on July 11, 2006 and approved the same day. The plan called for the advancement of several soil borings and the installation, development and sampling of monitor wells surrounding the AH7 wellhead. The plan was later modified to include an additional soil boring and monitor well to be situated between the well and Lake Avalon (west of the site). Soil samples were to be collected at 5 to 10 ft intervals and analyzed for the presence and concentration of BTEX (benzene, toluene, ethylbenzene and xylenes), TPH (total petroleum hydrocarbons) and chlorides. Groundwater was to be further analyzed for RCRA 8 metals, volatile and semi-volatile organic compounds (VOC's and SVOC's), conductivity and total dissolved solids (TDS).

Soil Boring Activities

The soil lithology surrounding the Avalon Hills 7 Fed COM # 3 site are complex and heterogeneous with up to eleven distinct soil types encountered in a single soil boring. Though the majority of the soil boring locations were relatively closely spaced, it is quite difficult to correlate the various strata between each well bore. The Munsell soil classification system was employed to describe and match these various strata within the borings, but little commonality was found (Exhibit 5, Well Boring Lithology).

BH-1

Drilling began on the morning of July 17, 2006 using an Atkins Engineering hollow stem auger rig at a location approximately 25 ft southeast of the wellhead. The first 35 ft of drilling encountered three distinct dry clay layers underlain by a sandstone layer extending to a depth of 50 ft. The sandstone was honeycombed with voids estimated to range from 2" to 24" in size.

Hydrocarbon odors were noted at the interface of the sandstone and the underlying sandy clay zone (additionally containing cemented gravel). The sandy clay extended from 50 ft

to a depth of 72 ft followed by stiff, red clay continuing to the total drilled depth of 100 ft.

BH-2

Soil boring BH-2 was drilled at the extreme southeast corner of the AH7 well pad. The encountered soils in the first 70 ft of BH-2 consisted of stiff, dry clay. The auger rig encountered bit refusal at a depth of 50 ft. To continue advancing the boring required mobilizing an air rig operated by MMX to the site in order to complete the hole.

A thin layer of sandstone was encountered at 70 ft underlain by approximately 13 ft of limestone. Clayey sand was found beneath the limestone continuing to the total drilled depth of 97 ft. No evidence of impact associated with the well control issue was detected during boring activities.

BH-3

Soil boring BH-3 was situated immediately east of the western entrance to the well pad. The borehole was air drilled through alternating layers of sandstone and limestone to a total depth of 110 ft. Beginning at a depth of approximately 75 ft the soil structure became increasingly honeycombed with all returns lost at a depth of 97 ft. With the removal of the drill string, the hole caved to a depth of 67 ft. The boring was subsequently abandoned and grouted to ground surface with cement slurry. No evidence of impact associated with the well control issue was detected during boring activities.

BH-3A

Soil boring BH-3A was located at the extreme southwest corner of the pad in close proximity to abandoned boring location BH-3. The borehole was air and auger drilled through alternating layers of sandstone and limestone to a depth of 130 ft. A cavern was encountered at a depth of approximately 58 ft and extended to an approximate depth of 65 ft. Because of the cavern, the air rig lost all returns and the boring was continued with an auger rig. A complete lack of returns caused abandonment of the hole at the 130 ft depth. The boring was subsequently abandoned and grouted to surface with cement slurry. No evidence of impact associated with the well control issue was detected during boring activities.

BH-4

Soil boring BH-4 is located 700 ft west of the western edge of the pad. The boring was begun with the air rig and drilled through sandstone and limestone to a depth of 38 ft. Upon encountering another cavern and losing returns, the hole was continued with an auger rig through clay to a total depth of 100 ft. The boring location was subsequently completed as a monitoring well. No evidence of impact associated with the well control issue was detected during boring activities.

Monitor Wells

Three monitor wells were completed within boreholes and labeled MW-1, MW-2 and MW-4. These monitoring wells were developed by Atkins Engineering with a minimum of ten bore volumes of fluid removed from each well. The well development fluids were transported to a commercial disposal facility. The construction details for the individual wells are presented in Exhibits 18, 19 and 22.

Corrected for elevation, the water levels in the monitoring wells were 3,151 ft, 3,139 ft and 3,129 ft. above mean sea level respectively. Each well showed chloride and TDS concentrations above New Mexico Water Quality Control Commission (NMWQCC) standards, however, only monitor well MW-1 indicated the presence of any hydrocarbon impact. The water level within MW-1 is approximately 12 ft higher than in MW-2 which is situated approximately 180 ft away. This fact coupled with the extremely slow recharge in MW-1 suggests that the fluid contained within MW-1 may be an artifact of the initial release event and not part of a larger perched groundwater system.

Conclusions and Recommendations

The surface casing compromise resulted in minor amounts of drilling mud and some volumes of dry gas escaping to the ground surface in a zone within 200 ft of the AH7 wellhead. Three soil borings / monitoring wells completed and sampled within 180 ft of the wellhead reveal no hydrocarbons are present within either the water or soil matrixes.

The impact from the well control issue appears to be highly localized around the AH7 wellhead. Impact appears to extend from a depth of approximately 45 ft below ground surface to the top of a red-bed layer at 80 ft. A proposed remediation plan is detailed in Whole Earth protocol PR-69 and is included in this report. Briefly, it is recommended that the fluid contained within MW-1 be pumped and removed for commercial disposal. Any remaining hydrocarbon fractions within the monitoring well fluids can be remediated by microbial inoculation treatment.

References

Hiss, W.L. 1973. Capitan aquifer observation-well network Carlsbad to Jal, New Mexico Technical Report 38. United States Geological Survey.

Hiss, W.L. 1975. Thickness of the Permian Guadalupian Capitan aquifer, southeast New Mexico and west Texas. New Mexico Bureau of Mines & Mineral Resources, New Mexico Institute of Mining and Technology, Socorro.

Huff, G.F. 1997. Summary of available hydrogeologic data collected between 1973 and 1995 and information on all permeability data and aquifer tests for the Capitan aquifer, Eddy and Lea counties, New Mexico. U.S Geological Survey. Open File Report 97-370. United States Geological Survey.

Uliana, M.M. 2001. The geology and hydrogeology of the Capitan aquifer: a brief overview, p. 153-166, *In* R. E. Mace, et al., eds. Aquifers of West Texas, Vol. Texas Water Development Board Report 356.

Exhibits Index

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3. USGS 7.5' Map (Zoom In)
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6. Munsell Soil Classification Table
7. Wellhead Showing Lease Information
8. Orientation of BH-1 / MW-1
9. Orientation of BH-2 / MW-2
10. BH-2 Split Spoon Sample Detail
11. Orientation of BH-3
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13. MW-1 Completion Detail
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19. Boring Log BH-1
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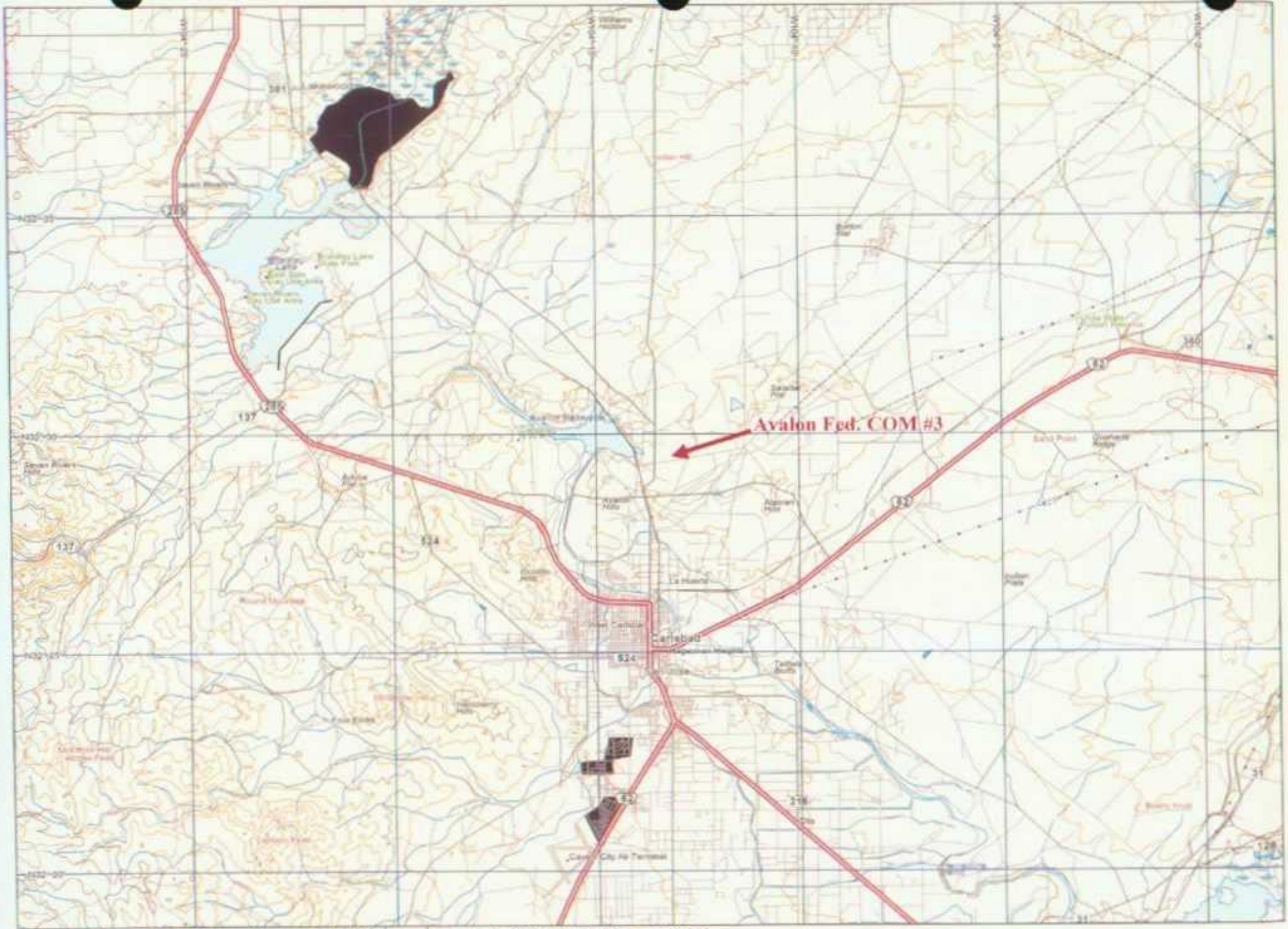
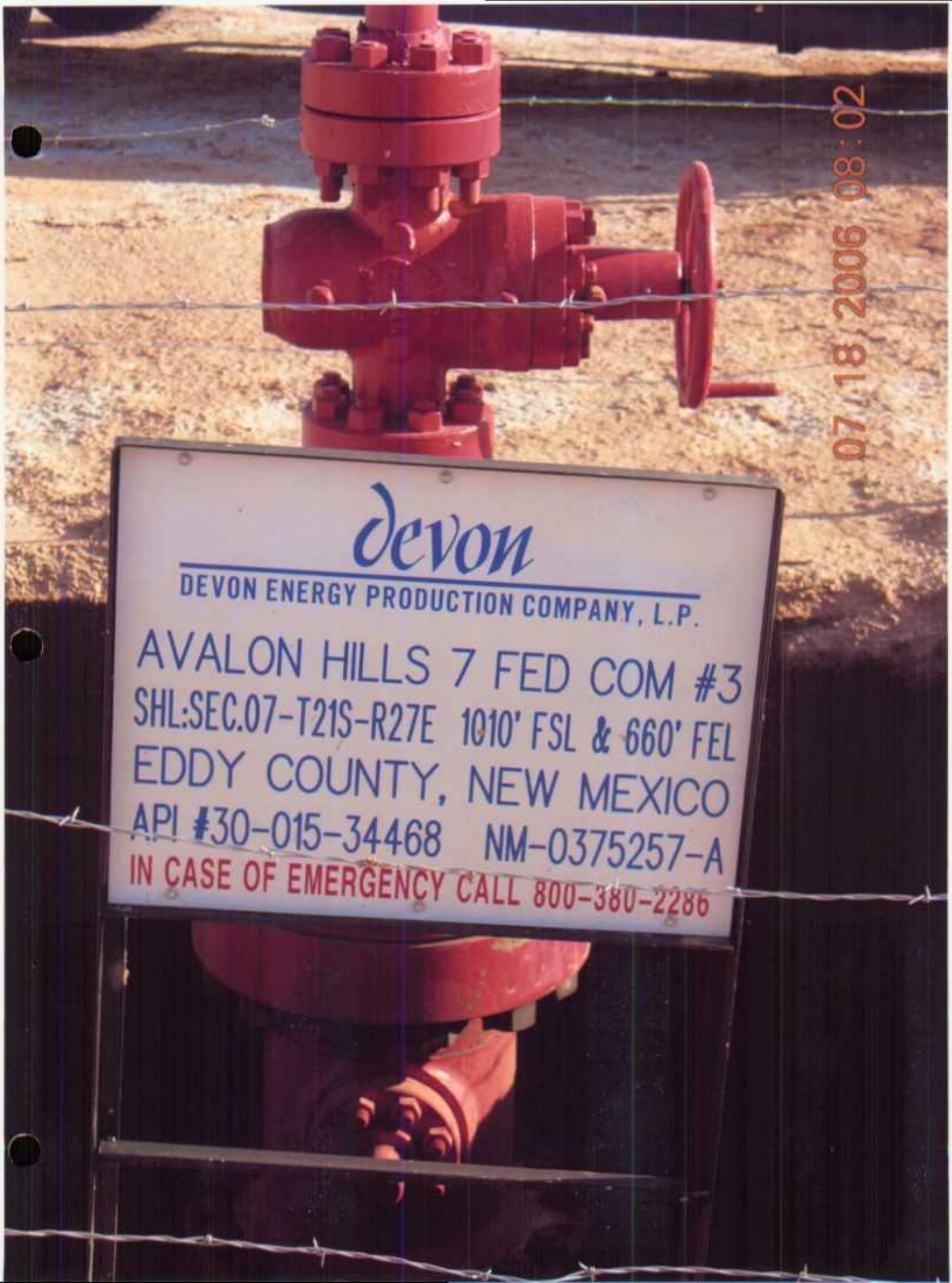
24. Chart of Bore Hole Geocoordinates
25. Excerpt of 20.6.2 NMAC Showing Water Quality Standard Requirements


Avalon 7 Fed. COM # 3
© 2006 Europa Technologies
Image © 2006 TerraMetrics
Google



 1 mi Scale: 1 : 200,000 Detail: 16-0 Datum: NAD27

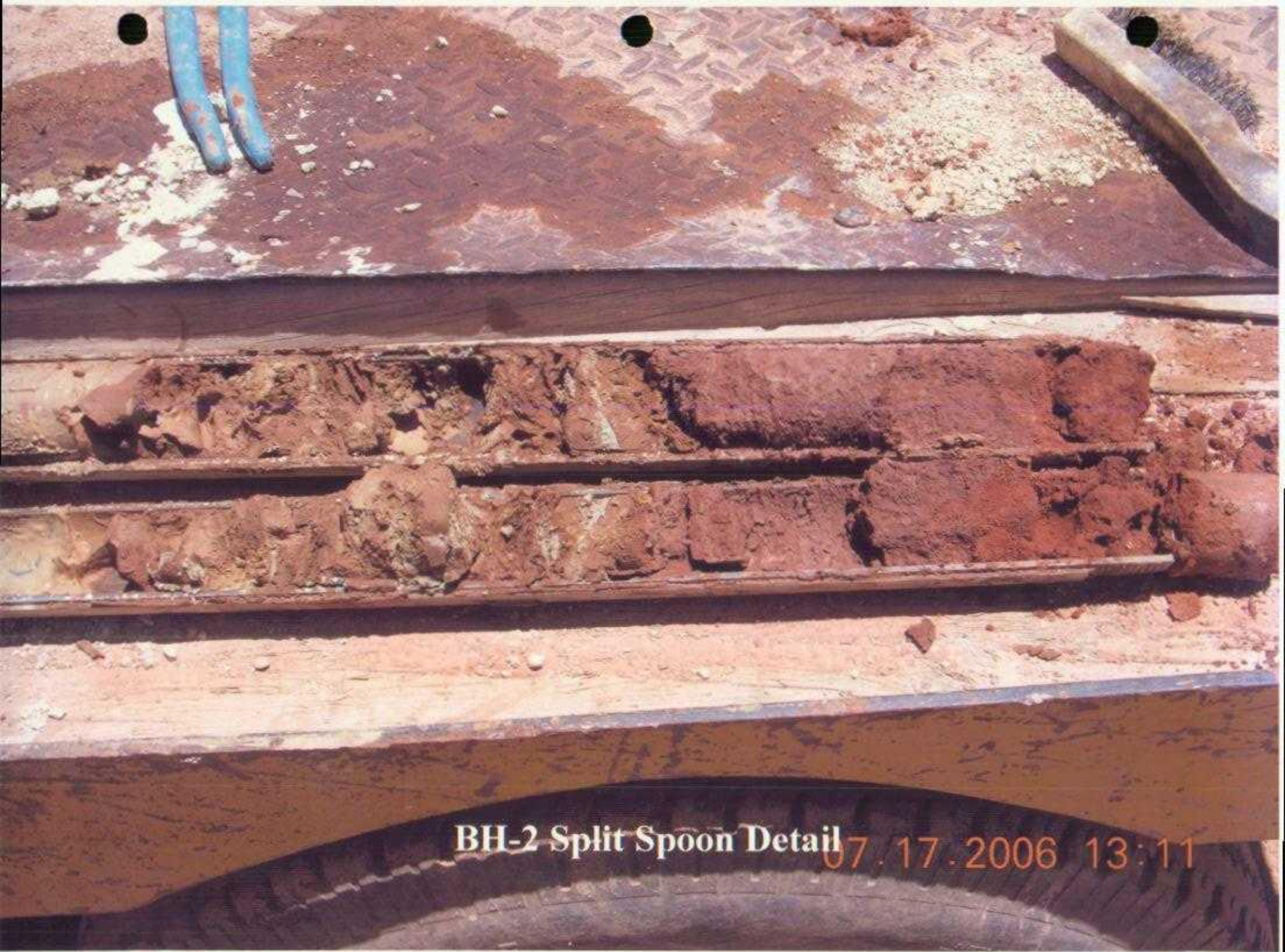
3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 2000 ft Scale: 1 : 50,000 Detail: 12-0 Datum: NAD27


07/18/2006 08:02
devon
DEVON ENERGY PRODUCTION COMPANY, L.P.
AVALON HILLS 7 FED COM #3
SHL:SEC.07-T21S-R27E 1010' FSL & 660' FEL
EDDY COUNTY, NEW MEXICO
API #30-015-34468 NM-0375257-A
IN CASE OF EMERGENCY CALL 800-380-2286

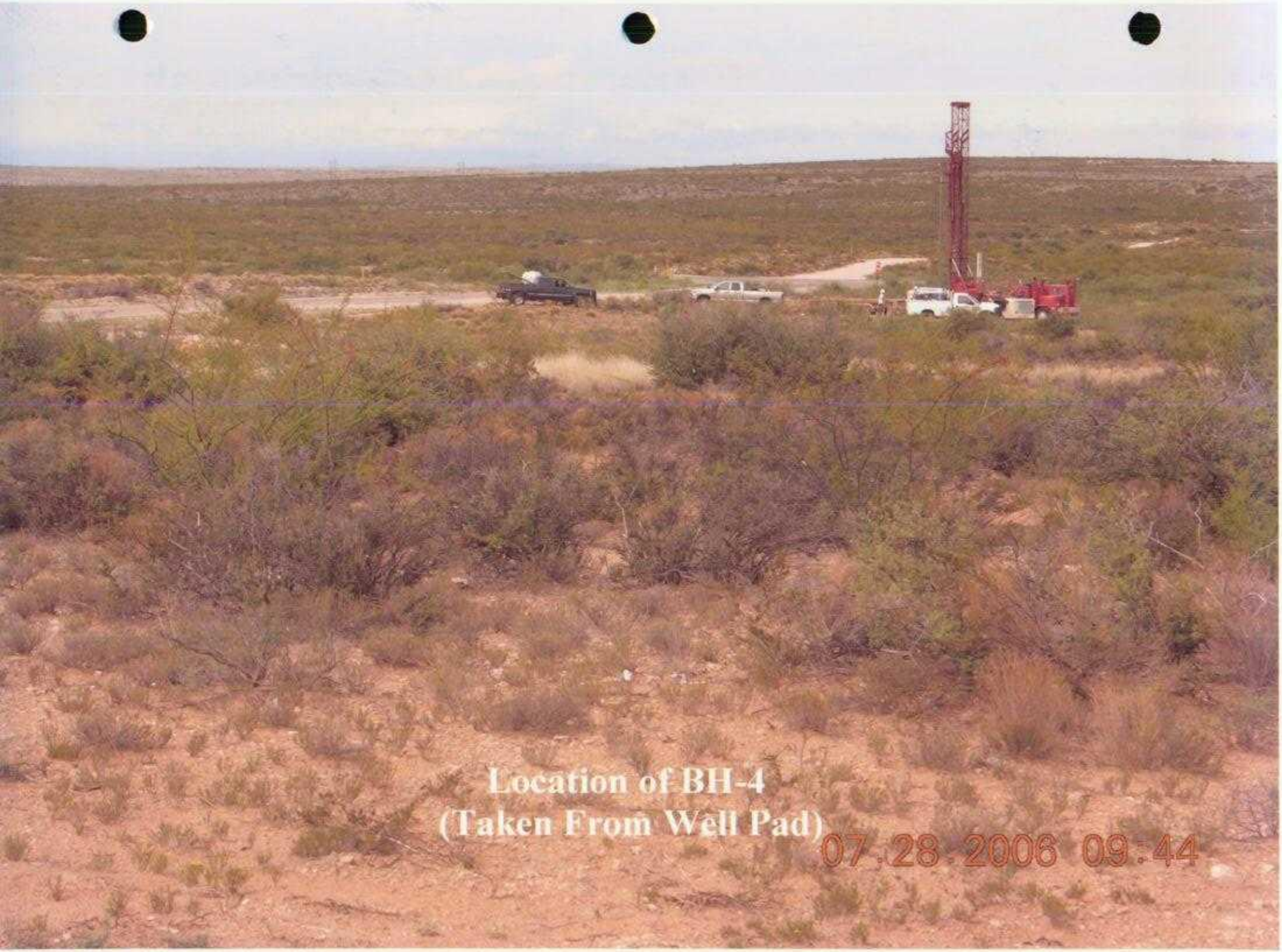
BH-1 Orientation Detail

BH-2 @ Southeast Corner of Pad

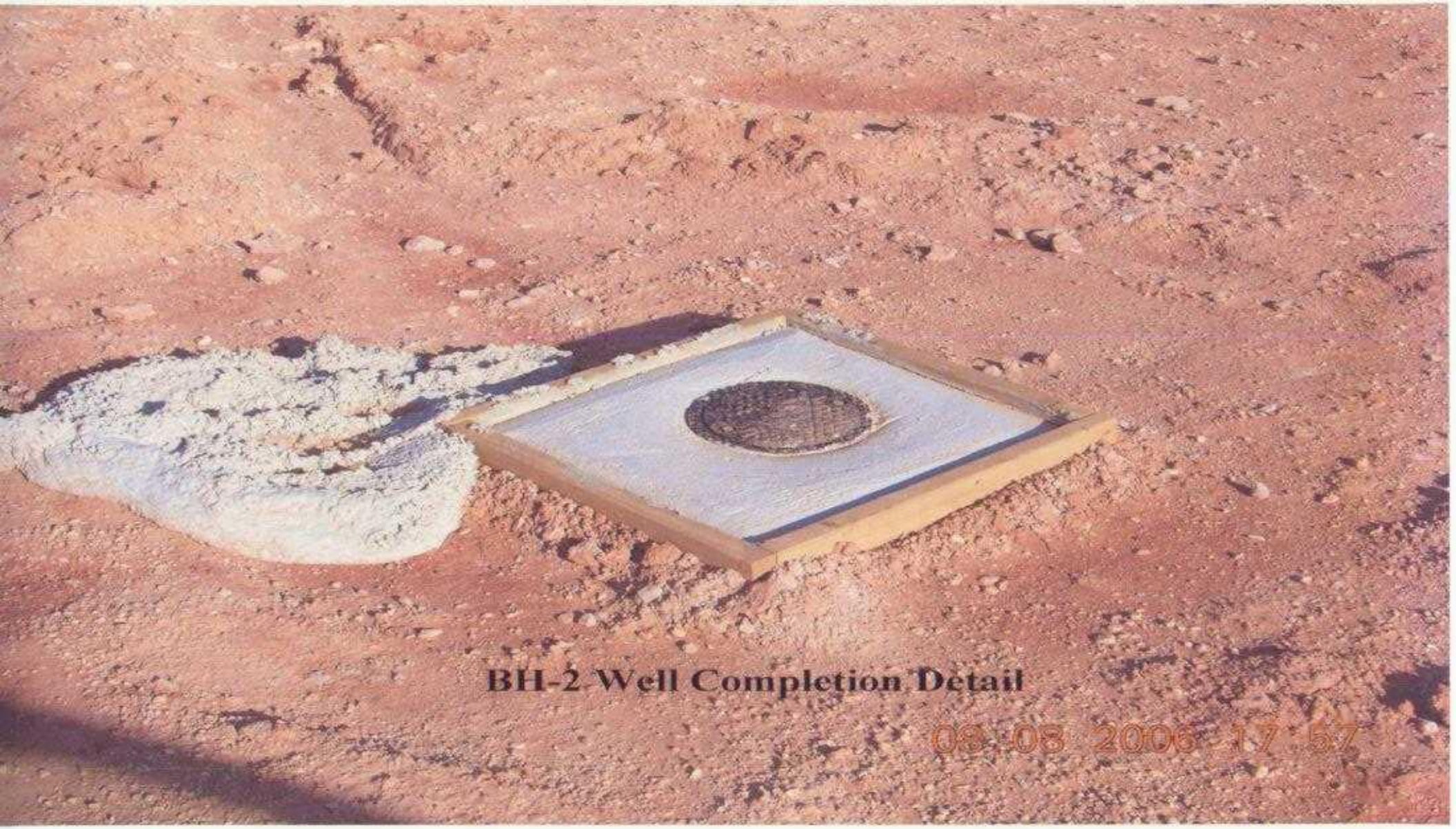
07.18.2006 10:40

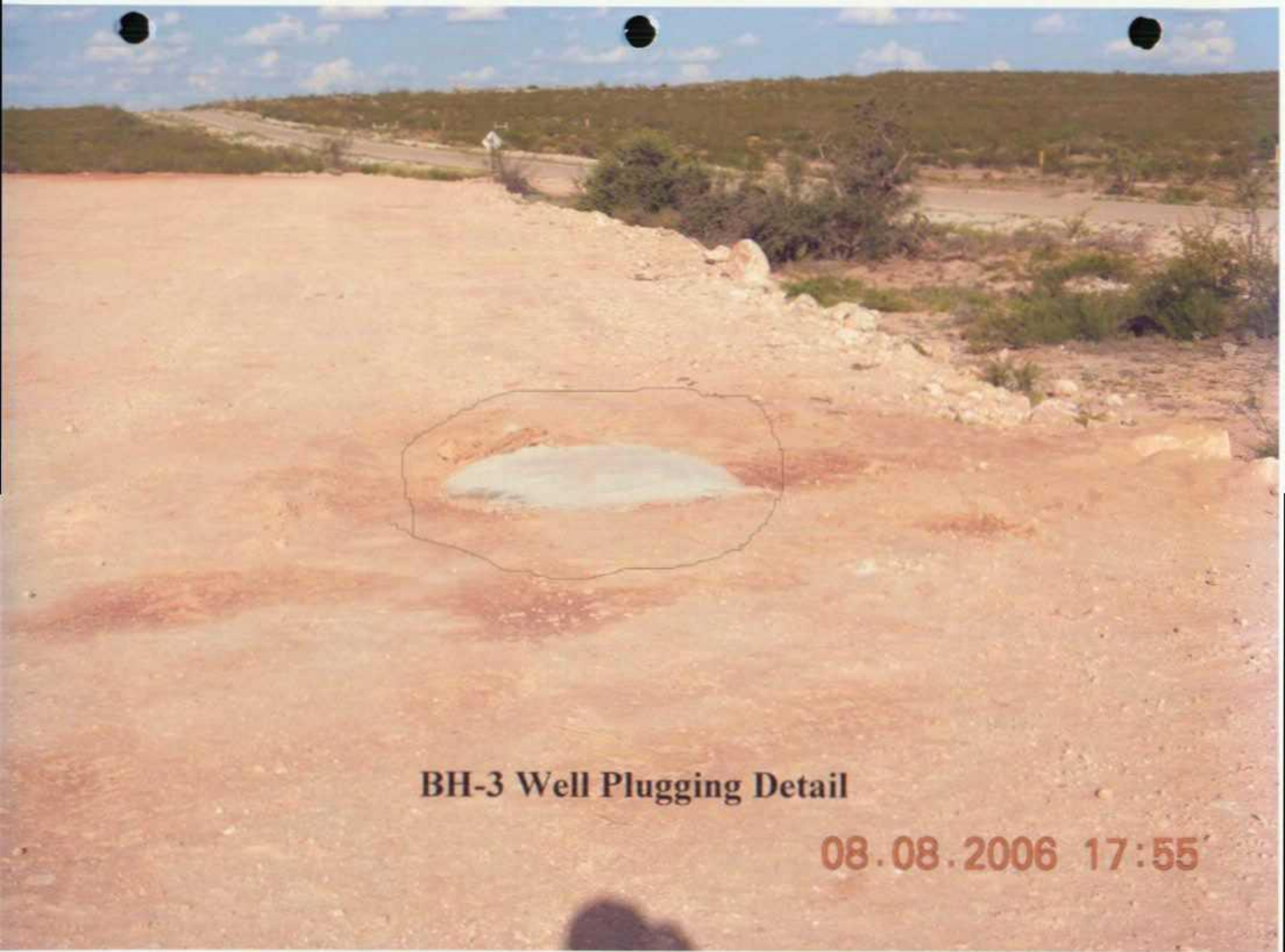

BH-2 Split Spoon Detail
07 . 17 . 2006 13 : 11

BH-3 @ Southwest Side of Pad


Location of BH-4
(Taken From Well Pad)
07.28.2006 09:44

BH-1 Well Completion Detail


BH-2 Well Completion Detail
08/08/2006 17:57



BH-3 Well Plugging Detail


BH3A Plugging Detail
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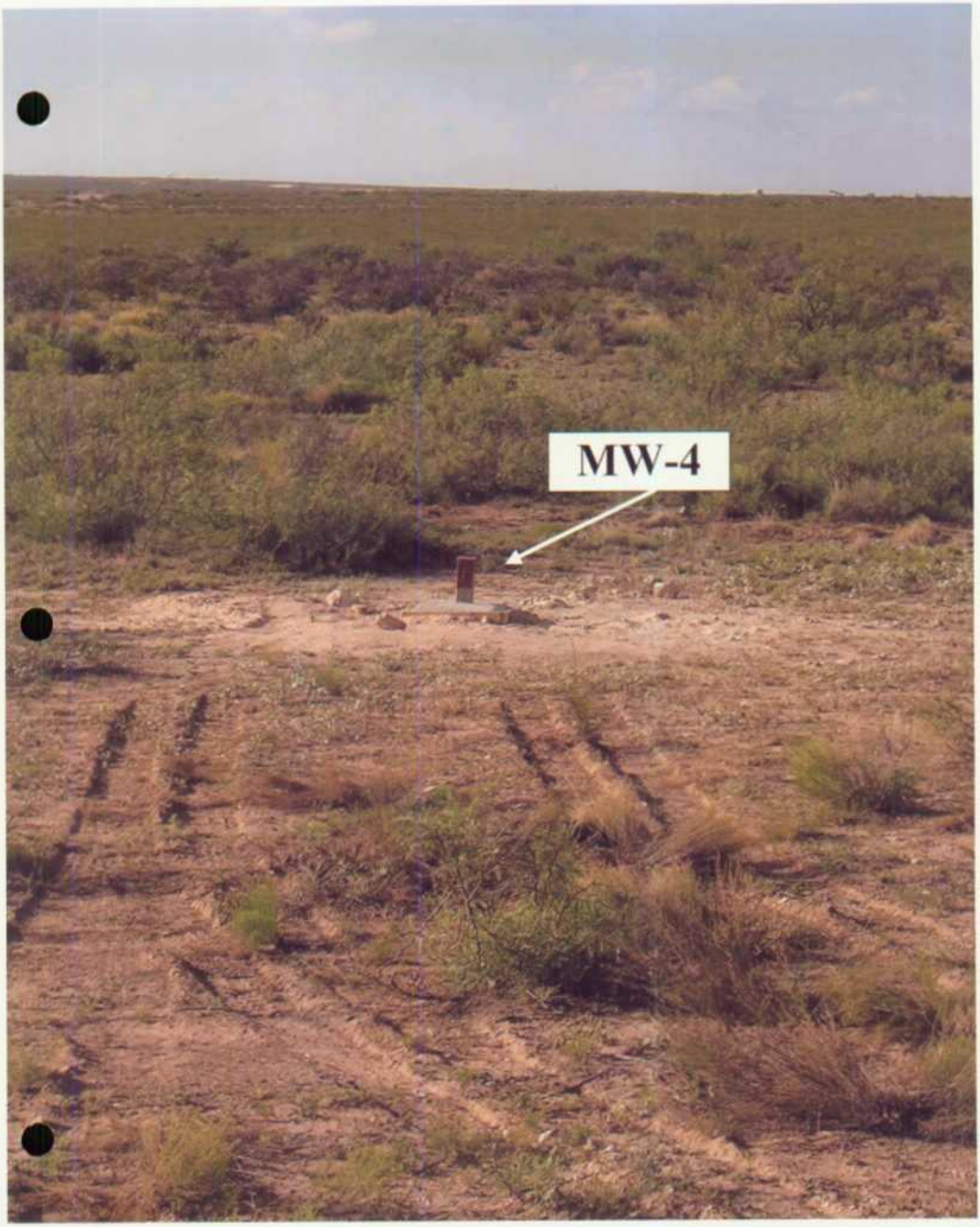
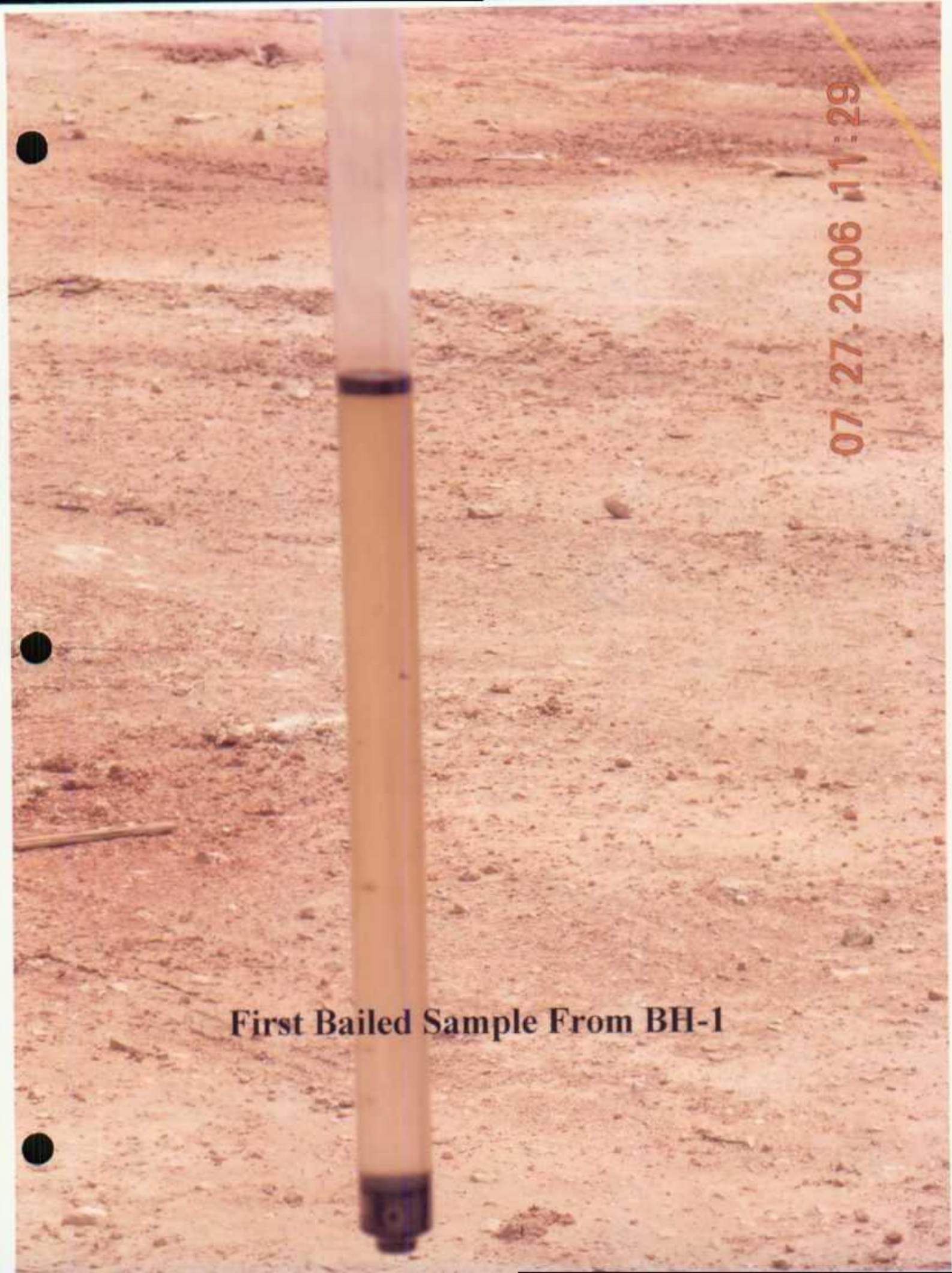

MW-4



First Bailed Sample From BH-1

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Munsell Soil Classification Table

BH-1

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
4-6	5YR5/8	Yellowish red silt loam	Yes
14-16	5YR 5/6	Yellowish red silt loam	Yes
18-20	5YR 5/8	Yellowish red clay loam – silty clay loam	Yes
24-26	5YR 6/7	Reddish yellow loam	Yes
28-30	5YR 7/4	Light reddish brown sandy loam	Yes
45	7.5 YR 6/4	Reddish brown sandy loam	Yes
50	7.5YR 6/4	Light brown sandy clay loam	Little
65	10YR 6/4	Light yellowish brown sandy loam	Little
70	10YR 6/4	Light yellowish brown clay	Little
80	7.5 YR 6/4	Light brown loamy sand	No
90	2.5 YR 6/4	Red fine sand	No

BH-3

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
50	5YR5/6	Yellowish red silty clay	Little
85	7.5 YR 5/6	Brown	Little
97		Blocks of dolomite and clay loam	

BH-3A

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
10		Dolomite	Yes
20	10 YR 8/2	Blocks of dolomite and very pale brown sand	Yes
30	10 YR 8/2	Blocks of dolomite and very pale brown sand	Yes
40	5 YR 4/6	Blocks of dolomite and reddish brown sand	Yes
50		Gravel	
60	10 YR 7/3-6/3	Pale brown loamy sand	Yes
70	5 YR 4/6	Yellowish red silt loam	Little
80	5 YR 5/8	Yellowish red silt clay loam	Very little
90	2.5 YR 6/3	Light yellowish brown clay	No
100	2.5 YR 6/3	Light yellowish brown silt loam	Very little
120	10 YR 5/4	Yellowish brown clay loam	No

BH-4

Depth (feet)	Munsell Color (dry)	Soil Texture	HCl Reaction
10		Dolomite	Yes
20		Dolomite	Yes
30	10 YR 8/2	Very pale brown very fine sand	Yes
40	10 YR 7/3	Very pale brown loamy sand	Yes
65	2.5 YR 4/6	Red sandy loam	No
75	2.5 Y 6/4	Light yellowish brown silt loam	Little
85	2.5 Y 6/2	Light brownish gray sandy clay loam	No
95	2.5 Y 6/3	Light yellowish brown loamy sand	No

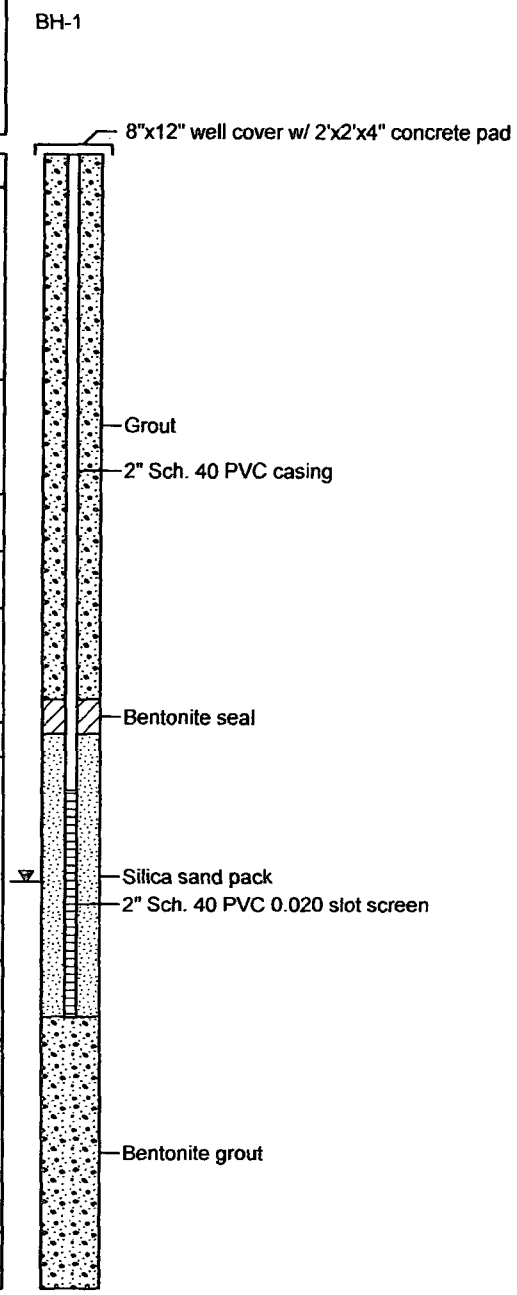
ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

Log of Boring Devon Energy Borehole 1

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-17-06 (0800)	Logged By	: Mort Bates
Drill End	: 07-18-06 (1000)		
Boring Location	: N32°29.370', W104°13.526'		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: 4¼ Hollow		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Fill, imported caliche
5		CL	Clay, loose, red, dry
10			
15			
20		CL	Clay w/ caliche, firm, tan & white, dry
25			
30		CL	Clay, loose, red, dry
35		SS	Sandstone, firm, tan, dry
40		SS	Sandstone, hard, tan, dry
45			
50		CL	Sandy clay w/ cemented gravel, firm
55		CL	Sandy clay w/ cemented gravel, firm
60			
65			
70		CL	Clay, loose, greyish green, moist
75			
80		CL	Clay, stiff, red, moist
85			
90			
95		SM	Silty sand, loose, reddish tan
100			Total Depth 100'
			Water Level 64'
105			
110			



ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

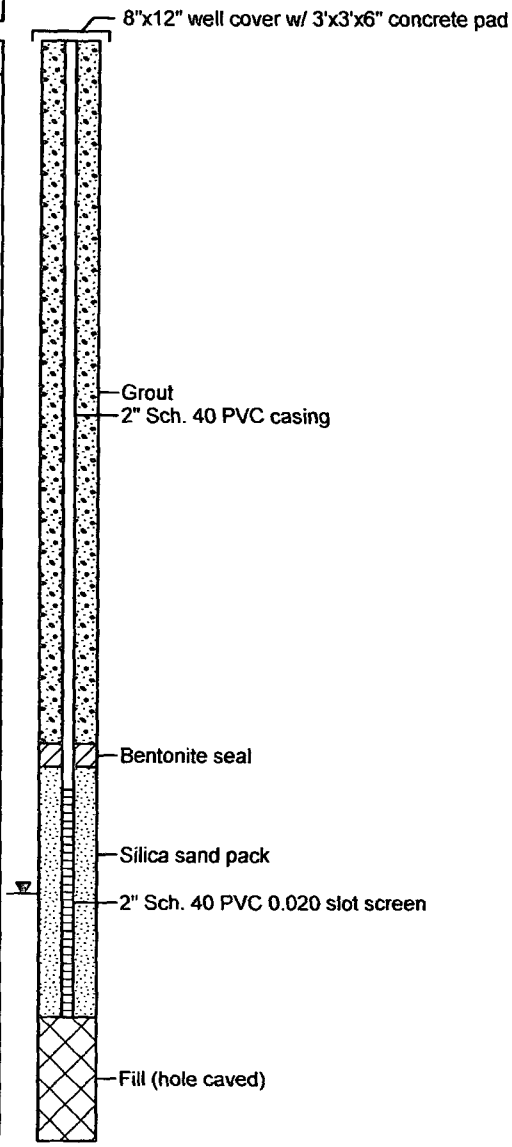
Log of Boring Devon Energy Borehole 2

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-19-06 (1100)	Logged By	: Mort Bates
Drill End	: 07-26-06 (1300)		
Boring Location	: Southeast of drilling pad		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: 4¼ Hollow		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Fill caliche pad
5			Clay, loose to firm, red, dry
10			
15			
20			
25			
30			
35		CL	
40			
45			
50			
55			
60			
65			
70		SS	Sandstone, firm, reddish tan, dry
75			Limestone, hard, grey, dry
80		LS	
85		SC	Clayey sand, loose, red, dry
90		SC	Clayey sand, loose, reddish, tan, damp
95			
100			Total Depth 97'
			Water Level 75.16'
105			Note: 0' to 67' Atkins auger drill, 67' to 97' drilled with M&M drill rig.
110			

BH-2



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Professional Engineering Land Surveying
Water Resources Environmental Science

Log of Boring Devon Energy Borehole 3

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-26-06 (1300)	Logged By	: Mort Bates
Drill End	: 07-27-06 (1600)		
Boring Location	: 200'W of M/W #2		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air drilled w/M&M		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Caliche fill
5		LS	Limestone, hard, gray, dry
10		LS	Broken limestone w/ layer of clayey sand, firm, grey, dry
25		SM	Silty sand, loose, reddish tan, dry
30		LS	Broken limestone, firm, grey, dry
35		SM	Silty sand, loose, reddish tan, dry
40		LS	Broken limestone, firm, grey, dry
45		SM	Silty sand, loose, yellowish tan, dry
50		SS	Sandstone, hard, light tan, dry
65		LS	Limestone, hard, grey, dry
75		LS	Limestone w/ silty sand, firm, grey & tan, dry
85		SS	Sandstone w/ silty sand, firm, reddish brown, dry
90			Lost all drilling returns, may be in a cavern. Taken drill stem to 110' and pulled out of the hole.
110			Total Depth 110'

BH-3

Note: Soil bore was drilled 110' with air by M&M Excavating. After pulling drill stem from the hole, the hole caved in from 68' to 110'.

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Professional Engineering Land Surveying
Water Resources Environmental Science

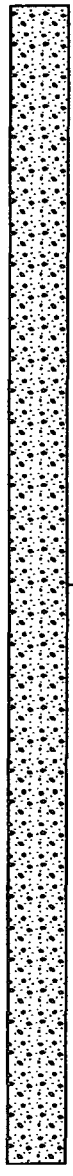
Log of Boring Devon Energy Borehole 3A

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-28-06 (1050)	Logged By	: Mort Bates
Drill End	: 08-02-06		
Boring Location	: 75'W of Borehole #3		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air & auger		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0			Caliche w/silty sand, firm, white & tan, dry
5		LS	Broken limestone, hard, grey, dry
10		SS	Sandstone, hard, yellowish tan, dry
15		SS	Sandstone, hard, tan, dry
20			
25			
30		SS	Sandstone w/silty clay, hard, reddish tan, dry
35			
40		SS	Sandstone, hard, red & tan, dry
45		CL	Clay, loose, greenish gray, damp
50		CL	Clay, loose, red, damp
55		SS	Cavernous sandstone, firm, tan, dry
60			May be cavern? Lost drill returns.
65		CL	Clay, stiff, red, damp
70			
75			
80		CL	Sandy clay, loose, greyish tan, damp
85			
90		CL	Sandy clay, firm, greyish green, damp
95			
100		CL	Silty clay, soft, greyish green, damp
105		CL	Silty clay, hard, greyish green, dry
110			
115			
120			
125			
130			Total Depth 130'
135			Borehole dry
140			Note: M&M air drill from 0' to 65', Atkins auger drill from 65' to 130'.

BH-5



Cement grout (borehole plugged)

ATKINS ENGINEERING ASSOCIATES, INC.
Professional Engineering Land Surveying
Water Resources Environmental Science

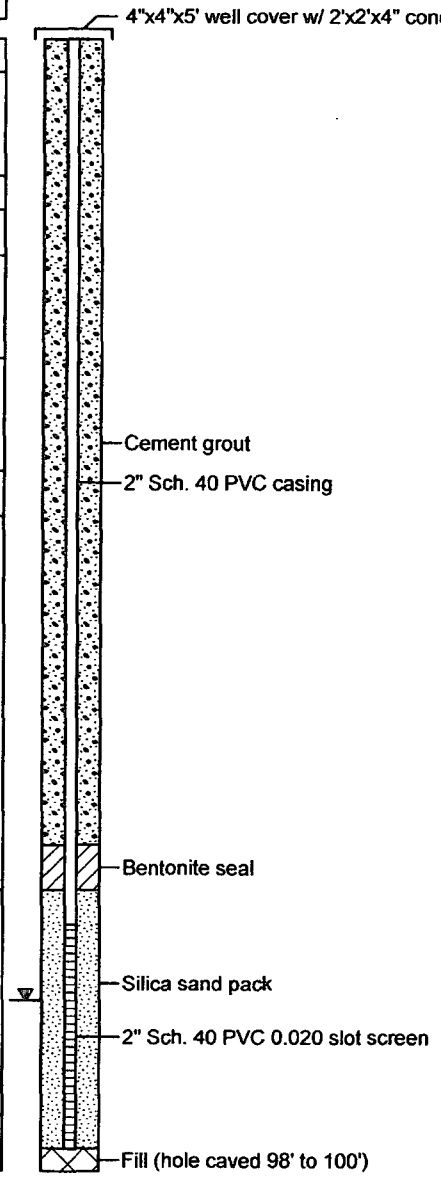
Log of Boring Devon Energy Borehole 4

Whole Earth Environmental
2103 Arbor Cove
Katy, TX 77494
Contact: Mike Griffin
Job #: CRDEVON.DRL.06

Drill Start	: 07-28-06 (0750)	Logged By	: Mort Bates
Drill End	: 07-29-06 (1500)		
Boring Location	: 700'W of Borehole #3		
Site Location	: T21S, R27E, Sec. 07		
Auger Type	: Air & auger		

Depth in Feet	GRAPHIC	USCS	DESCRIPTION
0		SM	Silty sand w/caliche, loose, brown & white, dry
5			Caliche, firm, light tan, dry
10			
		SS	Sandstone w/caliche, hard, pink, dry
15		LS	Limestone, hard, grey, dry
20		LS	Limestone w/ silty sand, hard, pink & grey, dry
25			
30		SS	Sandstone, hard, tan, dry
35			
40		SS	Sandstone, caverns, firm, tan, dry
45		CL	Clay, stiff, red, damp
50			
55			
60			
65			
70			
75		SC	Sandy clay, firm to soft, greyish tan, damp
80			
85			
90			
95		SM	Silty sand, soft, grey, wet
100			Total Depth 100'
105			Water Level 84.78'
110			Note: M&M drilled w/air from 0' to 48', Atkins drilled w/auger from 48' to 100'

BH-4



Devon Energy Site
Avalon Hills
Whole Earth Environmental
2103 Arbor Cove
Katy, Texas 77494

Boring number	Latitude	Longitude	Mean Sea Level Elevation
BH-1	32° 29.4066656'	104° 13.361357'	3215.23'
BH-2	32° 29.3891898'	104° 13.332315'	3215.49'
BH-3	32° 29.3639943'	104° 13.533745'	3195.37'
BH-4	32° 29.3823505'	104° 23.384612'	3214.63'

Notes:

1.Horizontal Data referenced to United States Coast and Geodetic Survey Tri-Station named "Carlsbad" set in 1922. The Coordinates are given in Latitude and Longitude.
2.Vertical Data referenced to National Geodetic Survey Benchmark designated "D-345". Vertical Data is NAVD 88 Datum. All elevations taken at land surface at bore hole locations.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations.
[2-18-77; 20.6.2.3101 NMAC - Rn, 20 NMAC 6.2.III.3101, 1-15-01]

20.6.2.3102: [RESERVED]
[12-1-95; 20.6.2.3102 NMAC - Rn, 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. **Human Health Standards**-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1) Arsenic (As).....0.1 mg/l
(2) Barium (Ba).....1.0 mg/l
(3) Cadmium (Cd).....0.01 mg/l
(4) Chromium (Cr).....0.05 mg/l
(5) Cyanide (CN).....0.2 mg/l
(6) Fluoride (F).....1.6 mg/l
(7) Lead (Pb).....0.05 mg/l
(8) Total Mercury (Hg).....0.002 mg/l
(9) Nitrate (NO_3 as N).....10.0 mg/l
(10) Selenium (Se).....0.05 mg/l
(11) Silver (Ag).....0.05 mg/l
(12) Uranium (U).....0.03 mg/l
(13) Radioactivity: Combined Radium-226 & Radium-228.....30 pCi/l
(14) Benzene.....0.01 mg/l
(15) Polychlorinated biphenyls (PCB's).....0.001 mg/l
(16) Toluene.....0.75 mg/l
(17) Carbon Tetrachloride.....0.01 mg/l
(18) 1,2-dichloroethane (EDC).....0.01 mg/l
(19) 1,1-dichloroethylene (1,1-DCE).....0.005 mg/l
(20) 1,1,2,2-tetrachloroethylene (PCE).....0.02 mg/l
(21) 1,1,2-trichloroethylene (TCE).....0.1 mg/l
(22) ethylbenzene.....0.75 mg/l
(23) total xylenes.....0.62 mg/l
(24) methylene chloride.....0.1 mg/l
(25) chloroform.....0.1 mg/l
(26) 1,1-dichloroethane.....0.025 mg/l
(27) ethylene dibromide (EDB).....0.0001 mg/l
(28) 1,1,1-trichloroethane.....0.06 mg/l
(29) 1,1,2-trichloroethane.....0.01 mg/l
(30) 1,1,2,2-tetrachloroethane.....0.01 mg/l
(31) vinyl chloride.....0.001 mg/l

(32) PAHs: total naphthalene plus monomethylnaphthalenes.....0.03 mg/l
(33) benzo-a-pyrene.....0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1) Chloride (Cl) .....250.0 mg/l
(2) Copper (Cu) .....1.0 mg/l
(3) Iron (Fe) .....1.0 mg/l
(4) Manganese (Mn) .....0.2 mg/l
(6) Phenols.....0.005 mg/l
(7) Sulfate (SO_4) .....600.0 mg/l
(8) Total Dissolved Solids (TDS) .....1000.0 mg/l
(9) Zinc (Zn) .....10.0 mg/l
(10) pH.....between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1) Aluminum (Al)..... .....5.0 mg/l
(2) Boron (B) .....0.75 mg/l
(3) Cobalt (Co) .....0.05 mg/l
(4) Molybdenum (Mo) .....1.0 mg/l
(5) Nickel (Ni) .....0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]

20.6.2.3104 DISCHARGE PERMIT REQUIRED: Unless otherwise provided by this Part, no person shall cause or allow effluent or leachate to discharge so that it may move directly of indirectly into ground water unless he is discharging pursuant to a discharge permit issued by the secretary. When a permit has been issued, discharges must be consistent with the terms and conditions of the permit. In the event of a transfer of the ownership, control, or possession of a facility for which a discharge permit is in effect, the transferee shall have authority to discharge under such permit, provided that the transferee has complied with Section 20.6.2.3111 NMAC, regarding transfers. [2-18-77, 12-24-87, 12-1-95; Rn & A, 20.6.2.3104 NMAC - 20 NMAC 6.2.III.3104, 1-15-01; A, 12-1-01]

20.6.2.3105 EXEMPTIONS FROM DISCHARGE PERMIT REQUIREMENT: Sections 20.6.2.3104 and 20.6.2.3106 NMAC do not apply to the following:

A. Effluent or leachate which conforms to all the listed numerical standards of Section 20.6.2.3103 NMAC and has a total nitrogen concentration of 10 mg/l or less, and does not contain any toxic pollutant. To determine conformance, samples may be taken by the agency before the effluent or leachate is discharged so that it may move directly or indirectly into ground water; provided that if the discharge is by seepage through non-natural or altered natural materials, the agency may take samples of the solution before or after seepage. If for any reason the agency does not have access to obtain the appropriate samples, this exemption shall not apply;

B. Effluent which is discharged from a sewerage system used only for disposal of household and other domestic waste which is designed to receive and which receives 2,000 gallons or less of liquid waste per day;

C. Water used for irrigated agriculture, for watering of lawns, trees, gardens or shrubs, or for irrigation for a period not to exceed five years for the revegetation of any disturbed land area, unless that water is received directly from any sewerage system;

D. Discharges resulting from the transport or storage of water diverted, provided that the water diverted has not had added to it after the point of diversion any effluent received from a sewerage system, that the source of the water diverted was not mine workings, and that the secretary has not determined that a hazard to public health may result;

E. Effluent which is discharged to a watercourse which is naturally perennial; discharges to dry arroyos and ephemeral streams are not exempt from the discharge permit requirement, except as otherwise provided in this section;

F. Those constituents which are subject to effective and enforceable effluent limitations in a National Pollutant Discharge Elimination System (NPDES) permit, where discharge onto or below the surface of the ground so that water contaminants may move directly or indirectly into ground water occurs downstream from the outfall

From : Price, Wayne, EMNRD <wayne.price@state.nm.us>

Sent : Tuesday, July 11, 2006 2:03 PM

To : "Mike Griffin" <whearth@msn.com>

CC : "Gum, Tim, EMNRD" <tim.gum@state.nm.us>, <chris.biagi@dvn.com>, <mike.dewitt@dvn.com>, <joe.johnston@dvn.com>, <ron.truelove@dvn.com>, <ldeuel@hughes.net>

Subject : RE: Devon Avalon Hills Investigation Protocol, PR-54D

OCD hereby approves of the investigation plan with the following conditions:

1. This E-mail approval will be included in the final report.
2. Notify the district office.
3. All correspondence will include the OCD case # 2R0056

Please be advised that NMOCD approval of this plan does not relieve the owner/operator of responsibility should operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

From: Mike Griffin [mailto:whearth@msn.com]
Sent: Tuesday, July 11, 2006 10:55 AM
To: Price, Wayne, EMNRD
Cc: Gum, Tim, EMNRD; chris.biagi@dvn.com; mike.dewitt@dvn.com; joe.johnston@dvn.com; ron.truelove@dvn.com; ldeuel@hughes.net
Subject: Devon Avalon Hills Investigation Protocol, PR-54D

Good Morning, All:

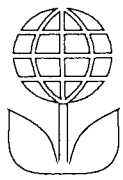
Attached, please find a copy of the preliminary workplan and investigation protocol for the Devon Avalon Hills 7 Fed. COM # 3 site. Wayne, pending your approval, we've tentatively scheduled Atkins Engineering to start drilling the first monitor well next Monday.

We're not certain as to where the second well will be located as we've got to complete the first before we can really know our gradient. Once determined, we'll get formal permission from the BLM to site a location.

Tim, we plan to be at the location Monday. can this e-mail serve as notice to you that we plan to start taking samples? We will of course encourage and welcome District OCD participation in the activities and very much look forward to working with you guys again.

Mike Griffin

Whole Earth Environmental, Inc.
Phone: 281.394.2050
FAX: 281.394.2051



Protocol

This section contains a copy of PR-54E, the final remediation protocol employed on this project.

PR-54E

Phase II Investigation Protocol
Devon Energy
Avalon Hills 7 Fed. COM # 3

1.0 Purpose

This protocol is to provide a detailed outline of the steps employed in the delineation of potential environmental impacts resulting from a casing part event associated with the Devon Energy Corporation (Devon) Avalon Hills 7 Fed. COM # 3 site located in Section 7, T21S, R27E of Eddy Co., NM.

2.0 Scope

This protocol is site specific for the Devon Avalon Hills 7 well site.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

3.1.1 Whole Earth shall meet with appropriate Devon personnel to review this protocol and make any requested modifications or alterations prior to submittal to the NMOCD and BLM.

3.1.2 Changes to this protocol will be documented and submitted to Devon for final review prior to submittal to appropriate agencies.

3.2 Regulatory Review

3.2.1 Upon Devon's approval, this protocol will be submitted to the NMOCD offices in Santa Fe and Artesia along with a copy to the Carlsbad BLM for review and comment. Recommended agency changes will be reviewed by the client prior to implementation.

3.2.2 Any recommended change effecting cost will require a revised quotation to be issued to the client for approval prior to the commencement of any on-site activity.

4.0 Safety

4.1 Prior to starting work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Devon personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All sub-contractors must attend and sign the daily log in sheet.

4.3 Anyone allowed on to location must be wearing appropriate work clothing including steel toed boots and other required personal protective equipment (hardhat, safety glasses and hearing protection). Each vehicle must be equipped with two-way communication capabilities.

4.4 Prior to starting any drilling or excavation activities, the area shall be surveyed with a line finder. If lines are discovered within the area to be drilled or excavated, the line traces shall be marked with pin flags on either side of the line at maximum five-foot intervals.

5.0 Surface Delineation

5.1 A detailed plat map will be prepared showing the overall pad layout, wellhead location, associated drilling and production features, and the location of any surface expressions of impact resulting from the casing part event at the location. The GPS coordinates of the site will be used to correlate NM State Engineer's, NM Tech. and USGS survey data relating to the soil morphology and known depths to groundwater or distance to surface waters.

5.2 Any significant surface stains or areas of interest will be sampled and field tested for the presence and concentrations of TPH and chlorides. Sample collection shall be in accordance with WEQP-96 (Whole Earth Quality Procedure). A minimum of 10% of these samples will be forwarded to Environmental Labs of Texas for confirmation.

5.3 Based on the field and laboratory confirmation sampling results, and if required, a detailed remediation protocol will be prepared and included within the Phase II report.

6.0 Sub-surface Investigation

6.1 A groundwater monitoring well will be constructed at a maximum distance of 50' southeast (anticipated downgradient of groundwater flow) of the Avalon Hills 7 Fed COM #3 wellhead. If possible, the well will be hollow stem auger drilled to a depth sufficient to determine the lower boundary of the aquifer. The well will be cased, developed and sampled in accordance with NMOCD guidelines. The design of the well shall be 2" diameter (nominal) and shall have a minimum of 10' of slotted screen within the water table and 10' of slotted screen extending above it.

6.2 Split spoon samples will be collected at 10' intervals and analyzed in the field for TPH (total petroleum hydrocarbons) and chlorides. Selected soil samples shall be forwarded to Environmental Labs of Texas for the analysis of BTEX (benzene, toluene, ethylbenzene and xylenes), chlorides and TPH. The NMOCD and BLM will be notified at least 48 hours in advance of the subsurface drilling and testing activities.

6.3 Additional soil samples from the boring shall be analyzed to determine soil morphology with the results used in the preparation of a HYDRUS 2D contaminant migration model.

6.4 The monitoring well depth to water information will be used in conjunction with information from other wells within the immediate area to determine the approximate groundwater flow gradient (anticipated as south to southeast based on regional information).

6.5 After monitoring well completion and development, water samples will be collected from the well in accordance with WEQP-77 protocols and analyzed for BTEX, major cations and anions, chlorides, RCRA 8 metals, and bromine.

6.6 The nearest existing water well will be located and with landowner permission, sampled. The water will be tested for all the constituents of concern (C of C) described in section 6.6 of this protocol.

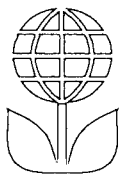
6.7 Two additional soil borings will be drilleded and completed in accordance with section 6.1 of this protocol. Soil samples will be collected and analyzed in accordance with section 6.2 of this protocol. Water samples (if any) will be collected and analyzed in accordance with section 6.5 of this protocol. The location of the wells will be at the southern corners of the existing well pad.

6.8 A final up-gradient well will be drilled at a location approximately 700' west of the western edge of the existing pad on BLM lands. The well will be drilled and sampled in accordance with sections 6.1 and 6.2 of this protocol. The depth of the well will be 400' or water – whichever is shallower.

7.0 Documentation & Reporting

At the conclusion of the assessment project, Whole Earth will prepare a Phase II report for submittal to the regulatory agencies. The report will include the following information:

- A plat of the location showing the location of the affected area, the location and description of major structures, test hole locations, geo-coordinates and orientation
- Photographs and schematic diagrams of any surface stains
- Field analytical results to include quality assurance and control information.
- Laboratory analytical results to include chain of custody and quality control / assurance information.
- Boring Logs to include depths, soil morphology and analytical information
- If the data shows any issues, a HYDRUS 2D model to include probable contaminant migration path, depth to groundwater and risk assessment calculations
- Well construction details
- Analytical results of water from the nearest existing water well source
- Groundwater flow gradient map
- Remediation plan (if necessary)



Procedures

This section contains copies of the sample collection procedures employed on this project.

QP-76 (Rev. A)

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Obtaining Water Samples (Cased Wells) Using One Liter Bailer

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO_3	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

4.0 Chain of Custody

4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.

4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Bailing Procedure

5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.

5.2 The well may be equipped with an individual 1 liter bailing tube. If so, use the tube to bail a volume of water from the well bore equal to 10 liters for each 5' of well bore in the water table. (This assumes a 2" dia. well bore).

5.3 Take care to insure that the bailing device and string do not become cross-contaminated. A clean pair of rubber gloves should be used when handling either the retrieval string or bailer. The retrieval string should not be allowed to come into contact with the ground.

6.0 Sampling Procedure

6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.

6.2 Note the time of collection on the sample collection jar with a fine Sharpie.

6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.

6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

7.0 Documentation

7.1 The testing laboratory shall provide the following minimum information:

A. Client, Project and sample name.
B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
C. Results of the requested analyses
D. Test Methods employed
E. Quality Control methods and results

QP-77

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Obtaining Soil Samples for Transportation to a Laboratory

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed when obtaining soil samples to be taken to a laboratory for analysis.

2.0 Scope

This procedure is to be used when collecting soil samples intended for ultimate transfer to a testing laboratory.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the soil. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 If collecting TPH, BTEX, RCRA 8 metals, cation / anions or O&G, the sample jar may be a clear 4 oz. container with Teflon lid. If collecting PAH's, use an amber 4 oz. container with Teflon lid.

4.0 Chain of Custody

4.1 Prepare a Sample Plan. The plan will list the number, location and designation of each planned sample and the individual tests to be performed on the sample. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.

4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Sampling Procedure

5.1 Go to the sampling point with the sample container. If not analyzing for ions or metals, use a trowel to obtain the soil. Do not touch the soil with your bare hands. Use new latex gloves with each sample to help minimize any cross-contamination. Try to avoid collecting rocks or vegetation.

5.2 Pack the soil tightly into the container leaving the top slightly domed. Screw the lid down tightly. Enter the time of collection onto the sample collection jar label.

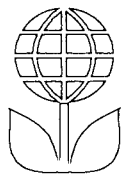
5.3 Place the sample directly on ice for transport to the laboratory.

5.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

6.0 Documentation

6.1 The testing laboratory shall provide the following minimum information:

A. Client, Project and sample name.
B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
C. Results of the requested analyses
D. Test Methods employed
E. Quality Control methods and results



Laboratory Analytical Results

This section contains copies of various summaries of the analytical results, chain of custody documents, laboratory analytical results and quality control information for soil samples processed during this project.

All samples were collected and processed in accordance with WEQP-76 and WEQP-77 contained within the procedures section of this report.

Devon Energy Company
Avalon Hills 7 Fed. COM 3 #
NM WQCC Groundwater Standards
Analysis Summary (mg/L)

Analyte	NM WQCC Std.	BH-1	BH-2	BH-4
Arsenic	0.1000	N/D	N/D	N/D
Barium	1.0000	0.374	0.299	0.675
Cadmium	0.0100	N/D	N/D	N/D
Chromium	0.0500	N/D	N/D	N/D
Cyanide	0.2000	N/T	N/T	N/T
Fluoride	1.6000	N/T	N/T	N/T
Lead	0.0500	N/D	N/D	N/D
Total Mercury	0.0020	N/D	0.0003	0.0003
Nitrate	10.0000	N/T	N/T	N/T
Selenium	0.0500	N/D	N/D	N/D
Silver	0.0500	N/D	N/D	N/D
Uranium	0.0300	N/T	N/T	N/T
Radioactivity	30 pCi/L	N/T	N/T	N/T
Benzene	0.0100	2,540	N/D	N/D
Polychlorinated biphenols	0.0010	N/D	N/D	N/D
Toluene	0.7500	10,200	N/D	N/D
Carbon Tetrachloride	0.0100	N/D	N/D	N/D
1,2-dichloroethane	0.0100	N/D	N/D	N/D
1,1-dichloroethylene	0.0050	N/D	N/D	N/D
1,1,2,2-tetrachloroethylene	0.0200	N/D	N/D	N/D
1,1,2-trichloroethylene	0.1000	N/D	N/D	N/D
Ethylbenzene	0.7500	2,740	N/D	N/D
Total Xylenes	0.6200	17	N/D	N/D
Methylene chloride	0.1000	N/D	N/D	N/D
Chloroform	0.1000	N/D	N/D	N/D
1,1-Dichloroethane	0.0250	N/D	N/D	N/D
Ethylene dibromide	0.0001	N/T	N/T	N/T
1,1,1-Trichloroethane	0.0600	N/D	N/D	N/D
1,1,2-Trichloroethane	0.0100	N/D	N/D	N/D
1,1,2,2-Tetrachloroethane	0.0100	N/D	N/D	N/D
Vinyl chloride	0.0010	N/D	N/D	N/D
Total napthalene + monoomethylnapthalenes	0.0300	N/D	N/D	N/D
Benzo-a-pyrene	0.0007	N/D	N/D	N/D

Chloride	250	52,800	372	797
Copper	1.0000	N/T	N/T	N/T
Iron	1.0000	N/T	N/T	N/T
Manganese	0.2000	N/T	N/T	N/T
Phenols	0.0050	N/T	N/T	N/T
Sulfate	600.0000	N/T	N/T	N/T
TDS	1,000	76,300	3,420	2,540
Zinc	10.0000	N/T	N/T	N/T
pH	6-9	N/T	N/T	N/T

Aluminum	5.0000	N/T	N/T	N/T
Boron	0.7500	N/T	N/T	N/T
Cobalt	0.0500	N/T	N/T	N/T
Molybdenum	1.0000	N/T	N/T	N/T
Nickel	0.2000	N/T	N/T	N/T

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Soil Borings Analytical Summary

BH-1							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'	ND	ND	ND	ND	ND	118.00	1.000
10'	ND	ND	ND	ND	ND	113.00	1.200
15'	ND	ND	ND	ND	ND	106.00	1.200
20'	ND	ND	ND	ND	ND	50.80	1.100
25'	ND	ND	ND	ND	ND	100.00	0.910
30'	ND	ND	ND	ND	ND	50.40	0.470
35'	ND	ND	ND	ND	ND	84.70	1.830
40'	Cavern						
45'	ND	ND	ND	ND	ND	2,280.00	6.970
50'	5,820	18.6	227	48.8	466	27,300.00	80.900
55'	ND	0.148	0.671	0.125	1.339	17,700.00	54.700
60'							
65'	ND	0.113	0.726	0.117	1.135	7,390.00	23.100
70'	112	0.299	3.1	1.01	8.67	1,510.00	9.400
75'							
80'	197	0.134	1.05	0.249	2.094	1,710.00	5.890
85'	ND	ND	ND	ND	ND	39.40	0.962
90'	ND	ND	ND	ND	ND	108.00	0.962
95'	ND	ND	ND	ND	ND	54.40	1.420
100'	ND	ND	ND	ND	ND	282.00	2.000

BH-2							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'	ND	ND	ND	ND	ND	6.30	0.300
10'	ND	ND	ND	ND	ND	37.90	0.850
15'	ND	ND	ND	ND	ND	93.30	0.880
20'	ND	ND	ND	ND	ND	81.00	0.710
25'	ND	ND	ND	ND	ND	97.80	0.924
30'	ND	ND	ND	ND	ND	61.80	1.100
35'	ND	ND	ND	ND	ND	17.30	0.490
40'	ND	ND	ND	ND	ND	42.00	0.808
45'	ND	ND	ND	ND	ND	45.1	0.630
50'	ND	ND	ND	ND	ND	17.60	0.910
55'	ND	ND	ND	ND	ND	11.80	0.859
60'	ND	ND	ND	ND	ND	33.30	1.520
65'	ND	ND	ND	ND	ND	31.80	2.480
70'	ND	ND	ND	ND	ND	271.00	3.430
75'	ND	ND	ND	ND	ND	48.90	0.823
80'							
85'							
90'							
95'							
100'							

BH-3							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'							
10'	ND	ND	ND	ND	ND	12.10	0.366
15'							
20'	ND	ND	ND	ND	ND	32.60	0.442
25'							
30'	ND	ND	ND	ND	ND	24.40	0.496
35'							
40'	ND	ND	ND	ND	ND	14.50	0.432
45'							
50'	ND	ND	ND	ND	ND	12.80	0.537
55'							
60'	ND	ND	ND	ND	ND	14.30	0.367
65'							
70'	ND	ND	ND	ND	ND	17.80	0.434
75'							
80'	ND	ND	ND	ND	ND	20.60	0.585
85'							
90'	ND	ND	ND	ND	ND	45.60	0.972
95'							
100'							
105'							
110'							
115'							
120'							

BH-3A							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C.
5'							
10'	ND	ND	ND	ND	ND	32.60	0.395
15'							
20'	ND	ND	ND	ND	ND	43.50	0.756
25'							
30'	ND	ND	ND	ND	ND	31.10	0.702
35'							
40'	ND	ND	ND	ND	ND	30.50	0.812
45'							
50'	ND	ND	ND	ND	ND	26.50	0.750
55'							
60'	ND	ND	ND	ND	ND	39.40	0.697
65'							
70'	ND	ND	ND	ND	ND	38.00	0.936
75'							
80'	ND	ND	ND	ND	ND	48.00	0.736
85'							
90'	ND	ND	ND	ND	ND	72.70	0.964
95'							
100'	ND	ND	ND	ND	ND	81.90	1.120
105'							
110'							
115'							
120'	ND	ND	ND	ND	ND	26.50	1.030

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Soil Borings Analytical Summary

BH-4							
Depth	TPH	Benzene	Toluene	Ethyl-Benzene	Toluene	Chlorides	E.C
5'							
10'	ND	ND	ND	ND	ND	6.06	0.299
15'							
20'	ND	ND	ND	ND	ND	21.00	0.511
25'							
30'	ND	ND	ND	ND	ND	6.86	0.354
35'							
40'	ND	ND	ND	ND	ND	ND	0.220
45'							
50'	ND	ND	ND	ND	ND	26.50	0.750
55'							
60'							
65'	ND	ND	ND	ND	ND	91.20	0.832
70'							
75'	ND	ND	ND	ND	ND	176.00	1.060
80'							
85'	ND	ND	ND	ND	ND	189.00	1.180
90'							
95'	ND	ND	ND	ND	ND	184.00	1.120

Devon Energy Company
Avalon Hills 7 Fed. COM # 3
Volatile & Semivolatile Compounds Analysis Summary

Volatile Organic Compounds EPA Method 8260B (µg/L)			
Analyte	BH-1	BH-2	BH-4
Dichlorodifluoromethane	N/D	N/D	N/D
Chloromethane	N/D	N/D	N/D
Vinyl Chloride	N/D	N/D	N/D
Bromomethane	N/D	N/D	N/D
Chloroethane	N/D	N/D	N/D
Trichlorofluoromethane	N/D	N/D	N/D
1,1-Dichloroethene	N/D	N/D	N/D
Acetone	N/D	N/D	N/D
Iodomethane	N/D	N/D	N/D
Carbon Disulfide	N/D	N/D	N/D
Methylene chloride	N/D	N/D	N/D
trans-1,2-Dichloroethene	N/D	N/D	N/D
Methyl tert-butyl ether	N/D	N/D	N/D
Acrylonitrile	N/D	N/D	N/D
1,1-Dichloroethane	N/D	N/D	N/D
Vinyl acetate	N/D	N/D	N/D
Cis-1,2-Dichloroethene	N/D	N/D	N/D
2-Butanone	N/D	N/D	N/D
Bromochloromethane	N/D	N/D	N/D
Chloroform	N/D	N/D	N/D
1,1,1-Trichloroethane	N/D	N/D	N/D
2,2-Dichloropropane	N/D	N/D	N/D
Carbon tetrachloride	N/D	N/D	N/D
2,2-Dichloropropane	N/D	N/D	N/D
Carbon tetrachloride	N/D	N/D	N/D
1,1-Dichloropropene	N/D	N/D	N/D
1,2-Dichloroethane	N/D	N/D	N/D
Benzene	2,840	N/D	N/D
Trichloroethene	N/D	N/D	N/D
1,2-Dichloropropane	N/D	N/D	N/D
Dibromomethane	N/D	N/D	N/D
Bromodichloromethane	N/D	N/D	N/D
2-Chloroethylvinyl ether	N/D	N/D	N/D
cis-1,3-Dichloropropene	N/D	N/D	N/D
4-Methyl-2-pentanone	N/D	N/D	N/D
Toluene	10,200	N/D	N/D
trans-1,3-Dichloropropene	N/D	N/D	N/D
2-Hexanone	N/D	N/D	N/D
Tetrachloroethene	N/D	N/D	N/D
1,3-Dichloropropane	N/D	N/D	N/D
Dibromochloromethane	N/D	N/D	N/D
1,2-Dibromoethane	N/D	N/D	N/D
Chlorobenzene	N/D	N/D	N/D
1,1,1,2-Tetrachloroethane	N/D	N/D	N/D
Ethylbenzene	2,470	N/D	N/D
m,p-Xylene	11,400	N/D	N/D
o-xylene	5,650	N/D	N/D
Styrene	N/D	N/D	N/D
Bromoform	N/D	N/D	N/D
trans-1,4-Dichloro-2-butene	N/D	N/D	N/D
Isopropyl benzene	786	N/D	N/D
1,2,3-Trichloropropane	N/D	N/D	N/D
1,1,2,2-Tetrachloroethane	N/D	N/D	N/D
Bromobenzene	N/D	N/D	N/D
n-Chlorotoluene	913	N/D	N/D
1,3,5-Trimethylbenzene	N/D	N/D	N/D
4-Chlorotoluene	N/D	N/D	N/D
tert-Butylbenzene	N/D	N/D	N/D
1,2,4-Trimethylbenzene	N/D	N/D	N/D
sec-Butylbenzene	N/D	N/D	N/D
1,3-Dichlorobenzene	N/D	N/D	N/D
p-Isopropyltoluene	442	N/D	N/D
1,4-Dichlorobenzene	N/D	N/D	N/D
n-Butylbenzene	592	N/D	N/D
1,2-Dichlorobenzene	N/D	N/D	N/D
1,2-Dibromo-3-chloropropane	N/D	N/D	N/D
1,2,4-Trichlorobenzene	N/D	N/D	N/D
Hexachlorobutadiene	N/D	N/D	N/D
Naphthalene	120	N/D	N/D
1,2,3-Trichlorobenzene	N/D	N/D	N/D

Semivolatile Organic Compounds EPA Method 8270C (µg/L)			
Analyte	BH-1	BH-2	BH-4
Pyridine	N/D	N/D	N/D
N-Nitrosodimethylamine	N/D	N/D	N/D
Aniline	N/D	N/D	N/D
Phenol	N/D	N/D	N/D
Bis(2-chloroethyl)ether	N/D	N/D	N/D
2-Chlorophenol	N/D	N/D	N/D
1,3-Dichlorobenzene	N/D	N/D	N/D
1,4-Dichlorobenzene	N/D	N/D	N/D
1,2-Dichlorobenzene	N/D	N/D	N/D
Benzyl alcohol	N/D	N/D	N/D
Bis(2-chloroisopropyl)ether	N/D	N/D	N/D
2-Methylphenol	N/D	N/D	N/D
N-Nitroso-di-n-propylamine	N/D	N/D	N/D
4-Methylphenol	N/D	N/D	N/D
Hexachloroethane	N/D	N/D	N/D
Nitrobenzene	N/D	N/D	N/D
Isophorone	N/D	N/D	N/D
2-Nitrophenol	N/D	N/D	N/D
2,4-Dimethylphenol	N/D	N/D	N/D
Bis(2-chloroethoxy)methane	N/D	N/D	N/D
2,4-Dichlorophenol	N/D	N/D	N/D
Benzoic Acid	N/D	N/D	N/D
1,2,4-Trichlorobenzene	N/D	N/D	N/D
Naphthalene	15	N/D	N/D
4-Chloroaniline	N/D	N/D	N/D
Hexachlorobutadiene	N/D	N/D	N/D
4-Chloro-3-methylphenol	N/D	N/D	N/D
2-Methylnaphthalene	36.1	N/D	N/D
Hexachlorocyclopentadiene	N/D	N/D	N/D
2,4,6-Trichlorophenol	N/D	N/D	N/D
2,4,5-Trichlorophenol	N/D	N/D	N/D
2-Chloronaphthalene	N/D	N/D	N/D
2-Nitroaniline	N/D	N/D	N/D
Dimethyl phthalate	N/D	N/D	N/D
2,6-Dinitrotoluene	N/D	N/D	N/D
Acenaphthylene	N/D	N/D	N/D
3-Nitroaniline	N/D	N/D	N/D
Acenaphthene	N/D	N/D	N/D
2,4-Dinitrophenol	N/D	N/D	N/D
4-Nitrophenol	N/D	N/D	N/D
Dibenzofuran	N/D	N/D	N/D
2,4-Dinitrotoluene	N/D	N/D	N/D
2,3,4,6-Tetrachlorophenol	N/D	N/D	N/D
Diethyl phthalate	N/D	N/D	N/D
Fluorene	N/D	N/D	N/D
4-Chlorophenyl phenyl ether	N/D	N/D	N/D
4-Nitroaniline	N/D	N/D	N/D
Azobenzene	N/D	N/D	N/D
4,6-Dinitro-2-methylphenol	N/D	N/D	N/D
N-Nitrosodiphenylamine	N/D	N/D	N/D
4-Bromophenyl phenyl ether	N/D	N/D	N/D
Hexachlorobenzene	N/D	N/D	N/D
Pentachlorophenol	N/D	N/D	N/D
Phenanthrene	N/D	N/D	N/D
Anthracene	N/D	N/D	N/D
Carbazole	N/D	N/D	N/D
Di-n-butyl phthalate	N/D	N/D	N/D
Fluoranthene	N/D	N/D	N/D
Benzidine	N/D	N/D	N/D
Pyrene	N/D	N/D	N/D
Butyl benzyl phthalate	N/D	N/D	N/D
Benzo (a) anthracene	N/D	N/D	N/D
3,3'-Dichlorobenzidene	N/D	N/D	N/D
Chrysene	N/D	N/D	N/D
Bis(2-ethylexyl)phthalate	163	N/D	N/D
Di-n-octyl phthalate	N/D	N/D	N/D
Indeno (1,2,3-cd) pyrene	N/D	N/D	N/D
Benzo (b) fluoranthene	N/D	N/D	N/D
Benzo (k) fluoranthene	N/D	N/D	N/D
Benzo (a) pyrene	N/D	N/D	N/D
Dibenzo (a,h) anthracene	N/D	N/D	N/D
Benzo (g,h,i) perylene	N/D	N/D	N/D

Devon Energy Company
Avalon Hills 7 Fed COM # 3
Metals Analysis Summary

Analyte	BH-1	BH-2	BH-4
Chloride	52,800	372	797
E.C. (mmhos/cm)	106	4	4
TDS	76,300	3,420	2,540

Mercury	N / D	0.0003	0.0003
Chromium	N / D	N / D	N / D
Arsenic	N / D	N / D	N / D
Selenium	N / D	N / D	N / D
Silver	N / D	N / D	N / D
Cadmium	N / D	N / D	N / D
Barium	0.374	0.299	0.075
Lead	N / D	N / D	N / D

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G20003

Report Date: 07/27/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 5'	6G20003-01	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 10'	6G20003-02	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 15'	6G20003-03	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 20'	6G20003-04	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 25'	6G20003-05	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 30'	6G20003-06	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 35'	6G20003-07	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 45'	6G20003-08	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 50'	6G20003-09	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 55'	6G20003-10	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 65'	6G20003-11	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 70'	6G20003-12	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 80'	6G20003-13	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 90'	6G20003-14	Soil	07/17/06 00:00	07/20/06 10:20
BH-1 100'	6G20003-15	Soil	07/17/06 00:00	07/20/06 10:20

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 5' (6G20003-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/20/06	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		*93.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62121	07/21/06	07/21/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*130 %*	*70-130*		"	"	"	"	
BH-1 10' (6G20003-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/20/06	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62121	07/21/06	07/21/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 15' (6G20003-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/20/06	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		*96.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/25/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*79.2 %*	*70-130*		"	"	"	"	
BH-1 20' (6G20003-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/20/06	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		*99.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/25/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*82.0 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 25' (6G20003-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/21/06	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		*84.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/25/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.8 %*	*70-130*		"	"	"	"	
BH-1 30' (6G20003-06) Soil									
[illegible]ene	ND	0.0250	mg/kg dry	25	EG61808	07/20/06	07/21/06	EPA 8021B	
[illegible]ene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*80.8 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 35' (6G20003-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	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		*87.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.0 %*	*70-130*		"	"	"	"	
BH-1 45' (6G20003-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	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		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.8 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 50' (6G20003-09) Soil									
Benzene	**18.6**	0.500	mg/kg dry	500	EG62120	07/21/06	07/24/06	EPA 8021B	
Toluene	**227**	0.500	"	"	"	"	"	"	
Ethylbenzene	**48.8**	0.500	"	"	"	"	"	"	
Xylene (p/m)	**360**	0.500	"	"	"	"	"	"	
Xylene (o)	**106**	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*935 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*139 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**4340**	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	**1440**	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**38.2**	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**5820**	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*177 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
BH-1 55' (6G20003-10) Soil									
Benzene	**0.148**	0.0250	mg/kg dry	25	EG62120	07/21/06	07/24/06	EPA 8021B	
Toluene	**0.671**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.125**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.05**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.289**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [9.19]**	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	J
Carbon Ranges C12-C28	**J [6.79]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*82.4 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 65' (6G20003-11) Soil									
Benzene	**0.113**	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	EPA 8021B	
Toluene	**0.726**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.117**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.866**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.269**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [12.9]**	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	J
Carbon Ranges C12-C28	**J [6.84]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.0 %*	*70-130*		"	"	"	"	
BH-1 70' (6G20003-12) Soil									
B[redacted]ene	**0.299**	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	EPA 8021B	
T[redacted]ene	**3.10**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.01**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**6.87**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.80**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*213 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*152 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**59.3**	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	**52.9**	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**112**	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 80' (6G20003-13) Soil									
Benzene	**0.134**	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	EPA 8021B	
Toluene	**1.05**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.249**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.70**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.394**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**113**	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	**84.2**	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**197**	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	
BH-1 90' (6G20003-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	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		*96.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*116 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 100' (6G20003-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62120	07/21/06	07/21/06	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		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*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
BH-1 5' (6G20003-01) Soil									
Chloride	**118**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1000**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**5.5**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 10' (6G20003-02) Soil									
Chloride	**113**	10.0	mg/kg	20	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1190**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**5.3**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 15' (6G20003-03) Soil									
Chloride	**106**	10.0	mg/kg	20	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1180**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**5.7**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 20' (6G20003-04) Soil									
Chloride	**50.8**	10.0	mg/kg	20	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1080**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**2.5**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 25' (6G20003-05) Soil									
Chloride	**100**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**913**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**4.2**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 30' (6G20003-06) Soil									
Chloride	**50.4**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**473**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**1.9**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	

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Project: Avalon Hills
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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
BH-1 35' (6G20003-07) Soil									
Chloride	**84.7**	10.0	mg/kg	20	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1830**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**5.6**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 45' (6G20003-08) Soil									
Chloride	**2280**	50.0	mg/kg	100	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**6970**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**4.2**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 50' (6G20003-09) Soil									
Chloride	**27300**	500	mg/kg	1000	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**80900**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**19.9**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 55' (6G20003-10) Soil									
Chloride	**17700**	500	mg/kg	1000	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**54700**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**26.1**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 65' (6G20003-11) Soil									
Chloride	**7390**	200	mg/kg	400	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**23100**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**17.9**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 70' (6G20003-12) Soil									
Chloride	**1510**	50.0	mg/kg	100	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**9400**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**22.3**	0.1	%	1	EG62111	07/20/06	07/21/06	% 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
BH-1 80' (6G20003-13) Soil									
Chloride	**1710**	25.0	mg/kg	50	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**5890**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**19.7**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 90' (6G20003-14) Soil									
Chloride	**108**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**962**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**11.2**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH-1 100' (6G20003-15) Soil									
Chloride	**282**	10.0	mg/kg	20	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**2000**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**12.5**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	

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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 EG61808 - EPA 5030C (GC)										
Blank (EG61808-BLK1)				Prepared: 07/18/06 Analyzed: 07/19/06						
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	*37.9*		*ug/kg*	*40.0*		*94.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		*"*	*40.0*		*92.2*	*80-120*			
LCS (EG61808-BS1)				Prepared: 07/18/06 Analyzed: 07/19/06						
Benzene	1.35	0.0250	mg/kg wet	1.25		108	80-120			
Toluene	1.34	0.0250	"	1.25		107	80-120			
Ethylbenzene	1.26	0.0250	"	1.25		101	80-120			
Xylene (p/m)	2.86	0.0250	"	2.50		114	80-120			
Xylene (o)	1.43	0.0250	"	1.25		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.9*		*ug/kg*	*40.0*		*99.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.6*		*"*	*40.0*		*102*	*80-120*			
C[illegible]ration Check (EG61808-CCV1)				Prepared: 07/18/06 Analyzed: 07/21/06						
B[illegible]ne	0.0513		mg/kg wet	0.0500		103	80-120			
Toluene	0.0559		"	0.0500		112	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.115		"	0.100		115	80-120			
Xylene (o)	0.0567		"	0.0500		113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.0*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		*"*	*40.0*		*92.5*	*80-120*			
Matrix Spike (EG61808-MS1)		**Source: 6G18009-13**		Prepared: 07/18/06 Analyzed: 07/21/06						
Benzene	1.48	0.0250	mg/kg dry	1.36	ND	109	80-120			
Toluene	1.47	0.0250	"	1.36	ND	108	80-120			
Ethylbenzene	1.43	0.0250	"	1.36	ND	105	80-120			
Xylene (p/m)	3.16	0.0250	"	2.71	ND	117	80-120			
Xylene (o)	1.52	0.0250	"	1.36	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.4*		*ug/kg*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.9*		*"*	*40.0*		*102*	*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 EG61808 - EPA 5030C (GC)										
Matrix Spike Dup (EG61808-MSD1)	**Source: 6G18009-13**			Prepared: 07/18/06 Analyzed: 07/20/06						
Benzene	1.44	0.0250	mg/kg dry	1.36	ND	106	80-120	2.79	20	
Toluene	1.45	0.0250	"	1.36	ND	107	80-120	0.930	20	
Ethylbenzene	1.37	0.0250	"	1.36	ND	101	80-120	3.88	20	
Xylene (p/m)	3.15	0.0250	"	2.71	ND	116	80-120	0.858	20	
Xylene (o)	1.49	0.0250	"	1.36	ND	110	80-120	1.80	20	
Surrogate: a,a,a-Trifluorotoluene	*41.1*		*ug/kg*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.9*		*"*	*40.0*		*102*	*80-120*			
Batch EG62120 - EPA 5030C (GC)										
Blank (EG62120-BLK1)				Prepared & Analyzed: 07/21/06						
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	*41.2*		*ug/kg*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.1*		*"*	*40.0*		*85.2*	*80-120*			
LCS (EG62120-BS1)				Prepared & Analyzed: 07/21/06						
Benzene	1.38	0.0250	mg/kg wet	1.25		110	80-120			
Toluene	1.37	0.0250	"	1.25		110	80-120			
Ethylbenzene	1.32	0.0250	"	1.25		106	80-120			
Xylene (p/m)	2.99	0.0250	"	2.50		120	80-120			
Xylene (o)	1.41	0.0250	"	1.25		113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.1*		*ug/kg*	*40.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.6*		*"*	*40.0*		*96.5*	*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 EG62120 - EPA 5030C (GC)										
Calibration Check (EG62120-CCV1)				Prepared & Analyzed: 07/21/06						
Benzene	50.9		ug/kg	50.0		102	80-120			
Toluene	50.6		"	50.0		101	80-120			
Ethylbenzene	49.4		"	50.0		98.8	80-120			
Xylene (p/m)	106		"	100		106	80-120			
Xylene (o)	52.6		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.6*		*"*	*40.0*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.6*		*"*	*40.0*		*94.0*	*80-120*			
Matrix Spike (EG62120-MS1)	**Source: 6G20014-01**			Prepared & Analyzed: 07/21/06						
Benzene	1.59	0.0250	mg/kg dry	1.52	ND	105	80-120			
Toluene	1.61	0.0250	"	1.52	ND	106	80-120			
Ethylbenzene	1.51	0.0250	"	1.52	ND	99.3	80-120			
Xylene (p/m)	3.60	0.0250	"	3.03	ND	119	80-120			
Xylene (o)	1.74	0.0250	"	1.52	ND	114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.6*		*ug/kg*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.0*		*"*	*40.0*		*112*	*80-120*			
Matrix Spike Dup (EG62120-MSD1)	**Source: 6G20014-01**			Prepared & Analyzed: 07/21/06						
Benzene	1.63	0.0250	mg/kg dry	1.52	ND	107	80-120	1.89	20	
Toluene	1.65	0.0250	"	1.52	ND	109	80-120	2.79	20	
Ethylbenzene	1.61	0.0250	"	1.52	ND	106	80-120	6.53	20	
Xylene (p/m)	3.56	0.0250	"	3.03	ND	117	80-120	1.69	20	
Xylene (o)	1.72	0.0250	"	1.52	ND	113	80-120	0.881	20	
Surrogate: a,a,a-Trifluorotoluene	*41.9*		*ug/kg*	*40.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.8*		*"*	*40.0*		*102*	*80-120*			
Batch EG62121 - Solvent Extraction (GC)										
Blank (EG62121-BLK1)				Prepared & Analyzed: 07/21/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*47.9*		*mg/kg*	*50.0*		*95.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.6*		*"*	*50.0*		*91.2*	*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 EG62121 - Solvent Extraction (GC)										
LCS (EG62121-BS1)				Prepared & Analyzed: 07/21/06						
Carbon Ranges C6-C12	451	25.0	mg/kg wet	500		90.2	75-125			
Carbon Ranges C12-C28	487	25.0	"	500		97.4	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	938	25.0	"	1000		93.8	75-125			
Surrogate: 1-Chlorooctane	*63.3*		*mg/kg*	*50.0*		*127*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.2*		*"*	*50.0*		*110*	*70-130*			
Calibration Check (EG62121-CCV1)				Prepared & Analyzed: 07/21/06						
Carbon Ranges C6-C12	203		mg/kg	250		81.2	80-120			
Carbon Ranges C12-C28	271		"	250		108	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*58.5*		*"*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.8*		*"*	*50.0*		*124*	*70-130*			
Matrix Spike (EG62121-MS1)		**Source: 6G20014-01**		Prepared & Analyzed: 07/21/06						
Carbon Ranges C6-C12	550	25.0	mg/kg dry	607	ND	90.6	75-125			
Carbon Ranges C12-C28	587	25.0	"	607	ND	96.7	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1140	25.0	"	1210	ND	94.2	75-125			
Surrogate: 1-Chlorooctane	*71.7*		*mg/kg*	*100*		*71.7*	*70-130*			
Surrogate: 1-Chlorooctadecane	*72.6*		*"*	*100*		*72.6*	*70-130*			
Matrix Spike Dup (EG62121-MSD1)		**Source: 6G20014-01**		Prepared & Analyzed: 07/21/06						
Carbon Ranges C6-C12	552	25.0	mg/kg dry	607	ND	90.9	75-125	0.363	20	
Carbon Ranges C12-C28	593	25.0	"	607	ND	97.7	75-125	1.02	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1140	25.0	"	1210	ND	94.2	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*71.5*		*mg/kg*	*100*		*71.5*	*70-130*			
Surrogate: 1-Chlorooctadecane	*76.7*		*"*	*100*		*76.7*	*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 EG62603 - Solvent Extraction (GC)										
Blank (EG62603-BLK1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*51.6*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.6*		*"*	*50.0*		*97.2*	*70-130*			
LCS (EG62603-BS1)				Prepared & Analyzed: 07/25/06						
Carbon Ranges C6-C12	471	25.0	mg/kg wet	500		94.2	75-125			
Carbon Ranges C12-C28	406	25.0	"	500		81.2	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	876	25.0	"	1000		87.6	75-125			
Surrogate: 1-Chlorooctane	*54.5*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		*"*	*50.0*		*72.6*	*70-130*			
Calibration Check (EG62603-CCV1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	235		mg/kg	250		94.0	80-120			
[redacted]n Ranges C12-C28	276		"	250		110	80-120			
[redacted] Hydrocarbon nC6-nC35	511		"	500		102	80-120			
Surrogate: 1-Chlorooctane	*56.4*		*"*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.1*		*"*	*50.0*		*110*	*70-130*			
Matrix Spike (EG62603-MS1)	**Source: 6G20003-03**			Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	527	25.0	mg/kg dry	530	ND	99.4	75-125			
Carbon Ranges C12-C28	449	25.0	"	530	ND	84.7	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	976	25.0	"	1060	ND	92.1	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.6*		*"*	*50.0*		*85.2*	*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 EG62603 - Solvent Extraction (GC)										
Matrix Spike Dup (EG62603-MSD1)	**Source: 6G20003-03**			Prepared: 07/25/06	Analyzed: 07/26/06					
Carbon Ranges C6-C12	529	25.0	mg/kg dry	530	ND	99.8	75-125	0.379	20	
Carbon Ranges C12-C28	430	25.0	"	530	ND	81.1	75-125	4.32	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	958	25.0	"	1060	ND	90.4	75-125	1.86	20	
Surrogate: 1-Chlorooctane	*50.7*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.0*		*"*	*50.0*		*86.0*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62111 - General Preparation (Prep)										
Blank (EG62111-BLK1)				Prepared: 07/20/06 Analyzed: 07/21/06						
% Solids	100		%							
Duplicate (EG62111-DUP1)		**Source: 6G20001-01**		Prepared: 07/20/06 Analyzed: 07/21/06						
% Solids	95.9		%		95.9			0.00	20	
Duplicate (EG62111-DUP2)		**Source: 6G20003-15**		Prepared & Analyzed: 07/21/06						
% Solids	88.0		%		87.5			0.570	20	
Duplicate (EG62111-DUP3)		**Source: 6G20014-09**		Prepared & Analyzed: 07/21/06						
% Solids	86.7		%		86.7			0.00	20	
Duplicate (EG62111-DUP4)		**Source: 6G20013-04**		Prepared & Analyzed: 07/21/06						
% Solids	93.6		%		93.6			0.00	20	
Batch EG62409 - General Preparation (WetChem)										
Blank (EG62409-BLK1)				Prepared & Analyzed: 07/24/06						
Chloride	ND	0.500	mg/kg							
LCS (EG62409-BS1)				Prepared & Analyzed: 07/24/06						
Chloride	9.18	0.500	mg/kg	10.0		91.8	80-120			
Calibration Check (EG62409-CCV1)				Prepared & Analyzed: 07/24/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EG62409-DUP1)		**Source: 6G20001-01**		Prepared & Analyzed: 07/24/06						
Chloride	575	20.0	mg/kg		613			6.40	20	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62409 - General Preparation (WetChem)										
Duplicate (EG62409-DUP2)		**Source: 6G20003-10**		Prepared & Analyzed: 07/24/06						
Chloride	17100	500	mg/kg		17700			3.45	20	
Matrix Spike (EG62409-MS1)		**Source: 6G20001-01**		Prepared & Analyzed: 07/24/06						
Chloride	1080	20.0	mg/kg	400	613	117	80-120			
Matrix Spike (EG62409-MS2)		**Source: 6G20003-10**		Prepared & Analyzed: 07/24/06						
Chloride	27400	500	mg/kg	10000	17700	97.0	80-120			
Batch EG62414 - General Preparation (WetChem)										
Calibration Check (EG62414-CCV1)				Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	1380		umhos/cm				80-120			
Duplicate (EG62414-DUP1)		**Source: 6G20003-01**		Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	1000	10.0	umhos/cm		1000			0.00	20	
Duplicate (EG62414-DUP2)		**Source: 6G20003-11**		Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	23300	10.0	umhos/cm		23100			0.862	20	

Notes and Definitions

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

Report Approved By: Raland K Tuttle Date: 7-31-06

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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Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chloride	SAR	EC	pH			RUSH TAT (Pre-Schedule)	Standard TAT
-01	BH 1 5'	07/17/06		1	X									X				X					X	X		X					
-02	10'	07/17/06		1	X									X				X					X	X		X					
-03	15'	07/17/06		1	X									X				X					X	X		X					
-04	20'	07/17/06		1	X									X				X					X	X		X					
-05	25'	07/17/06		1	X									X				X					X	X		X					
-06	30'	07/17/06		1	X									X				X					X	X		X					
-07	35'	07/17/06		1	X									X				X					X	X		X					
-08	45'	07/17/06		1	X									X				X					X	X		X					
-09	50'	07/17/06		1	X									X				X					X	X		X					
-10	55'	07/17/06		1	X									X				X					X	X		X					
-11	65'	07/17/06		1	X									X				X					X	X		X					
-12	70'	07/17/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? 8 N
Temperature Upon Receipt:
Laboratory Comments: 5.0

Relinquished by	Date	Time	Received by	Date	Time
M. Griffin	7/19/2006	10:20			
Relinquished by	Date	Time	Received by ELOT:	Date	Time
	7/20/06		Cancil Kelly	7/20/06	10:20

no labels

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

Analyze For:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	S.A.R.	E.C.	pH			RUSH TAT (Pre-Schedule)	Standard TAT
6420003																TCLP:															
																TOTAL:															
-13	BH1 80'	07/17/06		1	X									X				X					X	X		X					
-14	90'	07/17/06		1	X									X				X					X	X		X					
-15	100'	07/17/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 5.0
Laboratory Comments: no labels

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/19/2006 7/20/06	10:20			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cerri Key	7/20/06	10:20

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G20004

Report Date: 07/27/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 2 Surface	6G20004-01	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 5'	6G20004-02	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 10'	6G20004-03	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 15'	6G20004-04	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 20'	6G20004-05	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 25'	6G20004-06	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 30'	6G20004-07	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 35'	6G20004-08	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 40'	6G20004-09	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 45'	6G20004-10	Soil	07/18/06 00:00	07/20/06 10:20
BH 2 50'	6G20004-11	Soil	07/18/06 00:00	07/20/06 10:20

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 Surface (6G20004-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*94.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.6 %*	*70-130*		"	"	"	"	
BH 2 5' (6G20004-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 10' (6G20004-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*97.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.2 %*	*70-130*		"	"	"	"	
BH 2 15' (6G20004-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*95.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*116 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 20' (6G20004-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*94.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	
BH 2 25' (6G20004-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	EPA 8021B	
[illegible]ne	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 30' (6G20004-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*97.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62603	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
BH 2 35' (6G20004-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*94.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62601	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*125 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 40' (6G20004-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*98.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62601	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*128 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
BH 2 45' (6G20004-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62601	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 50' (6G20004-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	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		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62601	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 Surface (6G20004-01) Soil									
Chloride	**J [3.44]**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	J
Specific Conductance (EC)	**532**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**21.3**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 5' (6G20004-02) Soil									
Chloride	**6.34**	5.00	mg/kg	10	EG62409	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**303**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**18.8**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 10' (6G20004-03) Soil									
Chloride	**37.9**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**854**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**18.9**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 15' (6G20004-04) Soil									
Chloride	**93.3**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**879**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**9.1**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 20' (6G20004-05) Soil									
Chloride	**81.0**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**711**	10.0	umhos/cm	2	EG62414	07/21/06	07/24/06	EPA 9050A	
% Moisture	**22.9**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 25' (6G20004-06) Soil									
Chloride	**97.8**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**924**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**10.2**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 30' (6G20004-07) Soil									
Chloride	**61.8**	10.0	mg/kg	20	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**1100**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**7.3**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 35' (6G20004-08) Soil									
Chloride	**17.2**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**490**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**14.8**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 40' (6G20004-09) Soil									
Chloride	**42.0**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**808**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**7.1**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 45' (6G20004-10) Soil									
Chloride	**45.1**	5.00	mg/kg	10	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**630**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**4.7**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	
BH 2 50' (6G20004-11) Soil									
Chloride	**17.6**	10.0	mg/kg	20	EG62419	07/24/06	07/24/06	EPA 300.0	
Specific Conductance (EC)	**910**	10.0	umhos/cm	2	EG62415	07/19/06	07/24/06	EPA 9050A	
% Moisture	**22.1**	0.1	%	1	EG62111	07/20/06	07/21/06	% calculation	

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

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 EG62407 - EPA 5030C (GC)										
Blank (EG62407-BLK1)				Prepared & Analyzed: 07/24/06						
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	*41.3*		*ug/kg*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.2*		*"*	*40.0*		*88.0*	*80-120*			
LCS (EG62407-BS1)				Prepared & Analyzed: 07/24/06						
Benzene	1.33	0.0250	mg/kg wet	1.25		106	80-120			
Toluene	1.32	0.0250	"	1.25		106	80-120			
Ethylbenzene	1.20	0.0250	"	1.25		96.0	80-120			
Xylene (p/m)	2.85	0.0250	"	2.50		114	80-120			
Xylene (o)	1.37	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.3*		*ug/kg*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.8*		*"*	*40.0*		*97.0*	*80-120*			
Calibration Check (EG62407-CCV1)				Prepared & Analyzed: 07/24/06						
Benzene	49.4		ug/kg	50.0		98.8	80-120			
Toluene	53.1		"	50.0		106	80-120			
Ethylbenzene	50.8		"	50.0		102	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	53.6		"	50.0		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.8*		*"*	*40.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.5*		*"*	*40.0*		*93.8*	*80-120*			
Matrix Spike (EG62407-MS1)		**Source: 6G20004-01**		Prepared & Analyzed: 07/24/06						
Benzene	1.66	0.0250	mg/kg dry	1.59	ND	104	80-120			
Toluene	1.73	0.0250	"	1.59	ND	109	80-120			
Ethylbenzene	1.62	0.0250	"	1.59	ND	102	80-120			
Xylene (p/m)	3.62	0.0250	"	3.18	ND	114	80-120			
Xylene (o)	1.77	0.0250	"	1.59	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.1*		*ug/kg*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.2*		*"*	*40.0*		*103*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62407 - EPA 5030C (GC)										
Matrix Spike Dup (EG62407-MSD1)	**Source: 6G20004-01**			Prepared & Analyzed: 07/24/06						
Benzene	1.69	0.0250	mg/kg dry	1.59	ND	106	80-120	1.90	20	
Toluene	1.68	0.0250	"	1.59	ND	106	80-120	2.79	20	
Ethylbenzene	1.68	0.0250	"	1.59	ND	106	80-120	3.85	20	
Xylene (p/m)	3.66	0.0250	"	3.18	ND	115	80-120	0.873	20	
Xylene (o)	1.75	0.0250	"	1.59	ND	110	80-120	0.905	20	
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*ug/kg*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.5*		*"*	*40.0*		*101*	*80-120*			
Batch EG62601 - Solvent Extraction (GC)										
Blank (EG62601-BLK1)				Prepared & Analyzed: 07/25/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*54.5*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.4*		*"*	*50.0*		*82.8*	*70-130*			
(EG62601-BS1)				Prepared & Analyzed: 07/25/06						
Carbon Ranges C6-C12	492	25.0	mg/kg wet	500		98.4	75-125			
Carbon Ranges C12-C28	506	25.0	"	500		101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	999	25.0	"	1000		99.9	75-125			
Surrogate: 1-Chlorooctane	*61.6*		*mg/kg*	*50.0*		*123*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.0*		*"*	*50.0*		*102*	*70-130*			
Calibration Check (EG62601-CCV1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	214		mg/kg wet	250		85.6	80-120			
Carbon Ranges C12-C28	280		"	250		112	80-120			
Total Hydrocarbon nC6-nC35	495		"	500		99.0	80-120			
Surrogate: 1-Chlorooctane	*55.4*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.5*		*"*	*50.0*		*97.0*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62601 - Solvent Extraction (GC)										
Matrix Spike (EG62601-MS1)	**Source: 6G25014-01**			Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	598	25.0	mg/kg dry	631	ND	94.8	75-125			
Carbon Ranges C12-C28	651	25.0	"	631	ND	103	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1250	25.0	"	1260	ND	99.2	75-125			
Surrogate: 1-Chlorooctane	*59.4*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*64.2*		"	*50.0*		*128*	*70-130*			
Matrix Spike Dup (EG62601-MSD1)	**Source: 6G25014-01**			Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	583	25.0	mg/kg dry	631	ND	92.4	75-125	2.54	20	
Carbon Ranges C12-C28	647	25.0	"	631	ND	103	75-125	0.616	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1230	25.0	"	1260	ND	97.6	75-125	1.61	20	
Surrogate: 1-Chlorooctane	*56.5*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*59.7*		"	*50.0*		*119*	*70-130*			
Batch EG62603 - Solvent Extraction (GC)										
Blank (EG62603-BLK1)				Prepared: 07/25/06 Analyzed: 07/26/06						
[illegible]n Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*51.6*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.6*		"	*50.0*		*97.2*	*70-130*			
LCS (EG62603-BS1)				Prepared & Analyzed: 07/25/06						
Carbon Ranges C6-C12	471	25.0	mg/kg wet	500		94.2	75-125			
Carbon Ranges C12-C28	406	25.0	"	500		81.2	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	876	25.0	"	1000		87.6	75-125			
Surrogate: 1-Chlorooctane	*54.5*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		"	*50.0*		*72.6*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62603 - Solvent Extraction (GC)										
Calibration Check (EG62603-CCV1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	235		mg/kg	250		94.0	80-120			
Carbon Ranges C12-C28	276		"	250		110	80-120			
Total Hydrocarbon nC6-nC35	511		"	500		102	80-120			
Surrogate: 1-Chlorooctane	*56.4*		"	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.1*		"	*50.0*		*110*	*70-130*			
Matrix Spike (EG62603-MS1)		**Source: 6G20003-03**		Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	527	25.0	mg/kg dry	530	ND	99.4	75-125			
Carbon Ranges C12-C28	449	25.0	"	530	ND	84.7	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	976	25.0	"	1060	ND	92.1	75-125			
Surrogate: 1-Chlorooctane	*50.9*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.6*		"	*50.0*		*85.2*	*70-130*			
Matrix Spike Dup (EG62603-MSD1)		**Source: 6G20003-03**		Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	529	25.0	mg/kg dry	530	ND	99.8	75-125	0.379	20	
Carbon Ranges C12-C28	430	25.0	"	530	ND	81.1	75-125	4.32	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	958	25.0	"	1060	ND	90.4	75-125	1.86	20	
Surrogate: 1-Chlorooctane	*50.7*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.0*		"	*50.0*		*86.0*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62111 - General Preparation (Prep)										
Blank (EG62111-BLK1)				Prepared: 07/20/06 Analyzed: 07/21/06						
% Solids	100		%							
Duplicate (EG62111-DUP1)		**Source: 6G20001-01**		Prepared: 07/20/06 Analyzed: 07/21/06						
% Solids	95.9		%		95.9			0.00	20	
Duplicate (EG62111-DUP2)		**Source: 6G20003-15**		Prepared & Analyzed: 07/21/06						
% Solids	88.0		%		87.5			0.570	20	
Duplicate (EG62111-DUP3)		**Source: 6G20014-09**		Prepared & Analyzed: 07/21/06						
% Solids	86.7		%		86.7			0.00	20	
Duplicate (EG62111-DUP4)		**Source: 6G20013-04**		Prepared & Analyzed: 07/21/06						
% Solids	93.6		%		93.6			0.00	20	
Batch EG62409 - General Preparation (WetChem)										
Blank (EG62409-BLK1)				Prepared & Analyzed: 07/24/06						
Chloride	ND	0.500	mg/kg							
LCS (EG62409-BS1)				Prepared & Analyzed: 07/24/06						
Chloride	9.18	0.500	mg/kg	10.0		91.8	80-120			
Calibration Check (EG62409-CCV1)				Prepared & Analyzed: 07/24/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EG62409-DUP1)		**Source: 6G20001-01**		Prepared & Analyzed: 07/24/06						
Chloride	575	20.0	mg/kg		613			6.40	20	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EG62409 - General Preparation (WetChem)										
Duplicate (EG62409-DUP2)		**Source: 6G20003-10**		Prepared & Analyzed: 07/24/06						
Chloride	17100	500	mg/kg		17700			3.45	20	
Matrix Spike (EG62409-MS1)		**Source: 6G20001-01**		Prepared & Analyzed: 07/24/06						
Chloride	1080	20.0	mg/kg	400	613	117	80-120			
Matrix Spike (EG62409-MS2)		**Source: 6G20003-10**		Prepared & Analyzed: 07/24/06						
Chloride	27400	500	mg/kg	10000	17700	97.0	80-120			
Batch EG62414 - General Preparation (WetChem)										
Calibration Check (EG62414-CCV1)				Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	1380		umhos/cm				80-120			
Duplicate (EG62414-DUP1)		**Source: 6G20003-01**		Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	1000	10.0	umhos/cm		1000			0.00	20	
Duplicate (EG62414-DUP2)		**Source: 6G20003-11**		Prepared: 07/21/06 Analyzed: 07/24/06						
Specific Conductance (EC)	23300	10.0	umhos/cm		23100			0.862	20	
Batch EG62415 - General Preparation (WetChem)										
Calibration Check (EG62415-CCV1)				Prepared: 07/19/06 Analyzed: 07/24/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Duplicate (EG62415-DUP1)		**Source: 6G20004-06**		Prepared: 07/19/06 Analyzed: 07/24/06						
Specific Conductance (EC)	925	10.0	umhos/cm		924			0.108	20	

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 EG62419 - General Preparation (WetChem)										
Blank (EG62419-BLK1)				Prepared & Analyzed: 07/24/06						
Chloride	ND	0.500	mg/kg							
LCS (EG62419-BS1)				Prepared & Analyzed: 07/24/06						
Chloride	9.63	0.500	mg/kg	10.0		96.3	80-120			
Calibration Check (EG62419-CCV1)				Prepared & Analyzed: 07/24/06						
Chloride	9.22		mg/L	10.0		92.2	80-120			
Duplicate (EG62419-DUP1)		**Source: 6G20004-11**		Prepared & Analyzed: 07/24/06						
Chloride	18.4	10.0	mg/kg		17.6			4.44	20	
Matrix Spike (EG62419-MS1)		**Source: 6G20004-11**		Prepared & Analyzed: 07/24/06						
Chloride	231	10.0	mg/kg	200	17.6	107	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 7-28-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050
Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

LAB # (lab use only) 6192004	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	SAR	E.C	pH	RUSH TAT (Pre-Schedule)	Standard TAT
-01	BH 2 Surface	07/18/06		1	X									X				X					X	X		X			
-02	BH 2 5'	07/18/06		1	X									X				X					X	X		X			
-03	BH 2 10'	07/18/06		1	X									X				X					X	X		X			
-04	BH 2 15'	07/18/06		1	X									X				X					X	X		X			
-05	BH 2 20'	07/18/06		1	X									X				X					X	X		X			
-06	BH 2 25	07/18/06		1	X									X				X					X	X		X			
-07	BH 2 30'	07/18/06		1	X									X				X					X	X		X			
-08	BH 2 35	07/18/06		1	X									X				X					X	X		X			
-09	BH 2 40'	07/18/06		1	X									X				X					X	X		X			
10	BH 2 45'	07/18/06		1	X									X				X					X	X		X			
11	BH 2 50'	07/18/06		1	X									X				X					X	X		X			

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 5.0
Laboratory Comments: no labels

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/19/2006 7/20/06	10:10			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Laura Lee	7/20/06	10:20

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin
WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy, TX 77494

Project: Avalon Hills
Project Number: None Given
Location: None Given

Lab Order Number: 6G25009

Report Date: 08/01/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-2 55'	6G25009-01	Soil	2006-07-20 00:00	2006-07-25 13:00
BH-2 60'	6G25009-02	Soil	2006-07-20 00:00	2006-07-25 13:00
BH-2 65'	6G25009-03	Soil	2006-07-20 00:00	2006-07-25 13:00
BH-2 70'	6G25009-04	Soil	2006-07-20 00:00	2006-07-25 13:00
BH-2 75'	6G25009-05	Soil	2006-07-20 00:00	2006-07-25 13:00

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 55' (6G25009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	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		*94.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.6 %*	*70-130*		"	"	"	"	
BH-2 60' (6G25009-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	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		*95.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [13.5]**	25.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	TX 1005	J
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*111 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 65' (6G25009-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	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		*86.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	
BH-2 70' (6G25009-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
[redacted]ne	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 75' (6G25009-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	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		*81.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 55' (6G25009-01) Soil									
Chloride	**11.8**	5.00	mg/kg	10	EG62612	07/26/06	07/26/06	EPA 300.0	
Specific Conductance (EC)	**859**	5.00	umhos/cm	1	EG62707	07/26/06	07/26/06	EPA 9050A	
% Moisture	**11.1**	0.1	%	"	EG62605	07/25/06	07/26/06	% calculation	
BH-2 60' (6G25009-02) Soil									
Chloride	**33.3**	10.0	mg/kg	20	EG62612	07/26/06	07/26/06	EPA 300.0	
Specific Conductance (EC)	**1520**	5.00	umhos/cm	1	EG62707	07/26/06	07/26/06	EPA 9050A	
% Moisture	**4.9**	0.1	%	"	EG62605	07/25/06	07/26/06	% calculation	
BH-2 65' (6G25009-03) Soil									
Chloride	**31.8**	10.0	mg/kg	20	EG62612	07/26/06	07/26/06	EPA 300.0	
Specific Conductance (EC)	**2480**	5.00	umhos/cm	1	EG62707	07/26/06	07/26/06	EPA 9050A	
% Moisture	**6.3**	0.1	%	"	EG62605	07/25/06	07/26/06	% calculation	
BH-2 70' (6G25009-04) Soil									
Chloride	**271**	10.0	mg/kg	20	EG62612	07/26/06	07/26/06	EPA 300.0	
Specific Conductance (EC)	**3430**	5.00	umhos/cm	1	EG62707	07/26/06	07/26/06	EPA 9050A	
% Moisture	**5.5**	0.1	%	"	EG62605	07/25/06	07/26/06	% calculation	
BH-2 75' (6G25009-05) Soil									
Chloride	**48.9**	5.00	mg/kg	10	EG62612	07/26/06	07/26/06	EPA 300.0	
Specific Conductance (EC)	**823**	5.00	umhos/cm	1	EG62707	07/26/06	07/26/06	EPA 9050A	
% Moisture	**5.5**	0.1	%	"	EG62605	07/25/06	07/26/06	% calculation	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG62602 - Solvent Extraction (GC)										
Blank (EG62602-BLK1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*46.0*		*mg/kg*	*50.0*		*92.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.2*		*"*	*50.0*		*74.4*	*70-130*			
LCS (EG62602-BS1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	492	25.0	mg/kg wet	500		98.4	75-125			
Carbon Ranges C12-C28	529	25.0	"	500		106	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*57.4*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.2*		*"*	*50.0*		*82.4*	*70-130*			
Calibration Check (EG62602-CCV1)				Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	208		mg/kg wet	250		83.2	80-120			
Carbon Ranges C12-C28	293		"	250		117	80-120			
Total Hydrocarbon nC6-nC35	501		"	500		100	80-120			
Surrogate: 1-Chlorooctane	*59.7*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*56.1*		*"*	*50.0*		*112*	*70-130*			
Matrix Spike (EG62602-MS1)	**Source: 6G20009-01**			Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	476	25.0	mg/kg dry	515	ND	92.4	75-125			
Carbon Ranges C12-C28	520	25.0	"	515	ND	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	996	25.0	"	1030	ND	96.7	75-125			
Surrogate: 1-Chlorooctane	*57.9*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*58.1*		*"*	*50.0*		*116*	*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 EG62602 - Solvent Extraction (GC)										
Matrix Spike Dup (EG62602-MSD1)	**Source: 6G20009-01**			Prepared: 07/25/06 Analyzed: 07/26/06						
Carbon Ranges C6-C12	481	25.0	mg/kg dry	515	ND	93.4	75-125	1.04	20	
Carbon Ranges C12-C28	528	25.0	"	515	ND	103	75-125	1.53	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1010	25.0	"	1030	ND	98.1	75-125	1.40	20	
Surrogate: 1-Chlorooctane	*57.3*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.3*		*"*	*50.0*		*115*	*70-130*			
Batch EG62806 - EPA 5030C (GC)										
Blank (EG62806-BLK1)				Prepared: 07/28/06 Analyzed: 07/31/06						
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	*36.8*		*ug/kg*	*40.0*		*92.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.3*		*"*	*40.0*		*83.2*	*80-120*			
L[illegible]EG62806-BS1)				Prepared & Analyzed: 07/28/06						
B[illegible]ne	1.03	0.0250	mg/kg wet	1.25		82.4	80-120			
Toluene	1.08	0.0250	"	1.25		86.4	80-120			
Ethylbenzene	1.03	0.0250	"	1.25		82.4	80-120			
Xylene (p/m)	2.36	0.0250	"	2.50		94.4	80-120			
Xylene (o)	1.15	0.0250	"	1.25		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.2*		*ug/kg*	*40.0*		*80.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.7*		*"*	*40.0*		*86.8*	*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 EG62806 - EPA 5030C (GC)										
Calibration Check (EG62806-CCV1)				Prepared: 07/28/06 Analyzed: 07/31/06						
Benzene	0.0513		mg/kg wet	0.0500		103	80-120			
Toluene	0.0498		"	0.0500		99.6	80-120			
Ethylbenzene	0.0520		"	0.0500		104	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0508		"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.0*		*ug/kg*	*40.0*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.2*		*"*	*40.0*		*88.0*	*80-120*			
Matrix Spike (EG62806-MS1)		**Source: 6G26001-01**		Prepared: 07/28/06 Analyzed: 07/31/06						
Benzene	1.33	0.0250	mg/kg dry	1.32	ND	101	80-120			
Toluene	1.33	0.0250	"	1.32	ND	101	80-120			
Ethylbenzene	1.32	0.0250	"	1.32	ND	100	80-120			
Xylene (p/m)	2.89	0.0250	"	2.63	ND	110	80-120			
Xylene (o)	1.43	0.0250	"	1.32	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.4*		*ug/kg*	*40.0*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.2*		*"*	*40.0*		*95.5*	*80-120*			
Matrix Spike Dup (EG62806-MSD1)		**Source: 6G26001-01**		Prepared: 07/28/06 Analyzed: 07/31/06						
Benzene	1.26	0.0250	mg/kg dry	1.32	ND	95.5	80-120	5.60	20	
Toluene	1.26	0.0250	"	1.32	ND	95.5	80-120	5.60	20	
Ethylbenzene	1.29	0.0250	"	1.32	ND	97.7	80-120	2.33	20	
Xylene (p/m)	2.79	0.0250	"	2.63	ND	106	80-120	3.70	20	
Xylene (o)	1.39	0.0250	"	1.32	ND	105	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	*35.5*		*ug/kg*	*40.0*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.7*		*"*	*40.0*		*102*	*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 EG62605 - General Preparation (Prep)										
Blank (EG62605-BLK1)				Prepared: 07/25/06 Analyzed: 07/26/06						
% Solids	100		%							
Duplicate (EG62605-DUP1)		Source: 6G25003-01		Prepared: 07/25/06 Analyzed: 07/26/06						
% Solids	98.2		%		98.1			0.102	20	
Batch EG62612 - General Preparation (WetChem)										
Blank (EG62612-BLK1)				Prepared & Analyzed: 07/26/06						
Chloride	ND	0.500	mg/kg							
LCS (EG62612-BS1)				Prepared & Analyzed: 07/26/06						
Chloride	8.82	0.500	mg/kg	10.0		88.2	80-120			
Calibration Check (EG62612-CCV1)				Prepared & Analyzed: 07/26/06						
Chloride	9.03		mg/L	10.0		90.3	80-120			
Duplicate (EG62612-DUP1)		Source: 6G25009-05		Prepared & Analyzed: 07/26/06						
Chloride	48.5	5.00	mg/kg		48.9			0.821	20	
Matrix Spike (EG62612-MS1)		Source: 6G25009-05		Prepared & Analyzed: 07/26/06						
Chloride	152	5.00	mg/kg	100	48.9	103	80-120			
Batch EG62707 - Water Extraction										
Calibration Check (EG62707-CCV1)				Prepared & Analyzed: 07/26/06						
Specific Conductance (EC)	1390		umhos/cm	1410		98.6	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 EG62707 - Water Extraction										
Duplicate (EG62707-DUP1)		**Source: 6G25009-01**		Prepared & Analyzed: 07/26/06						
Specific Conductance (EC)	861	5.00	umhos/cm		859			0.233	20	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-01-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050
Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	SAR	E.C.	pH	RUSH TAT (Pre-Schedule)	Standard TAT
042909				402 9/25												TOTAL:													
-01	BH 2 55' RC 150	07/20/06		1	X									X				X					X	X		X			
-02	BH 2 60'	07/20/06		1	X									X				X					X	X		X			
-03	BH 2 65'	07/20/06		1	X									X				X					X	X		X			
-04	BH 2 70'	07/20/06		1	X									X				X					X	X		X			
-05	BH 2 75'	07/20/06		1	X									X				X					X	X		X			

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 24.5°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/23/2006				
Relinquished by: UPS	Date	Time	Received by ELOT: Celey Keene	Date 7/25/06	Time 13:00

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31006

Report Date: 08/11/06

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1	6G31006-01	Water	07/31/06 00:00	07-31-2006 14:15
BH-2	6G31006-02	Water	07/31/06 00:00	07-31-2006 14:15
BH-4	6G31006-03	Water	07/31/06 00:00	07-31-2006 14:15

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

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (6G31006-01) Water									
Chloride	**52800**	2500	mg/L	5000	EH60306	08/03/06	08/03/06	EPA 300.0	
Specific Conductance (EC)	**106000**	5.00	umhos/cm	1	EH60317	08/03/06	08/03/06	EPA 120.1	
Total Dissolved Solids	**76300**	10.0	mg/L	"	EH60901	08/04/06	08/08/06	EPA 160.1	
BH-2 (6G31006-02) Water									
Chloride	**372**	25.0	mg/L	50	EH60306	08/03/06	08/03/06	EPA 300.0	
Specific Conductance (EC)	**4410**	5.00	umhos/cm	1	EH60317	08/03/06	08/03/06	EPA 120.1	
Total Dissolved Solids	**3420**	10.0	mg/L	"	EH60901	08/04/06	08/08/06	EPA 160.1	
BH-4 (6G31006-03) Water									
Chloride	**797**	25.0	mg/L	50	EH60306	08/03/06	08/03/06	EPA 300.0	
Specific Conductance (EC)	**4490**	5.00	umhos/cm	1	EH60317	08/03/06	08/03/06	EPA 120.1	
Total Dissolved Solids	**2540**	10.0	mg/L	"	EH60901	08/04/06	08/08/06	EPA 160.1	

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WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (6G31006-01) Water									
Mercury	ND	0.000250	mg/L	1	EH60211	08/01/06	08/02/06	EPA 7470A	
Chromium	ND	0.0698	"	100	EH60210	08/01/06	08/02/06	EPA 6020A	
Arsenic	**J [0.0469]**	0.170	"	"	"	"	"	"	J
Selenium	**ND**	0.300	"	"	"	"	"	"	
Silver	ND	0.0405	"	"	"	"	"	"	
Cadmium	ND	0.0692	"	"	"	"	"	"	
Barium	**0.374**	0.0489	"	"	"	"	"	"	
Lead	ND	0.0296	"	"	"	"	"	"	
BH-2 (6G31006-02) Water									
Mercury	**0.000290**	0.000250	mg/L	1	EH60211	08/01/06	08/02/06	EPA 7470A	
Chromium	**ND**	0.0698	"	100	EH60210	08/01/06	08/02/06	EPA 6020A	
Arsenic	**ND**	0.170	"	"	"	"	"	"	
Selenium	ND	0.300	"	"	"	"	"	"	
Silver	ND	0.0405	"	"	"	"	"	"	
Cadmium	ND	0.0692	"	"	"	"	"	"	
Barium	**0.299**	0.0489	"	"	"	"	"	"	
Lead	ND	0.0296	"	"	"	"	"	"	
BH-4 (6G31006-03) Water									
Mercury	**0.000290**	0.000250	mg/L	1	EH60211	08/01/06	08/02/06	EPA 7470A	
Chromium	ND	0.0698	"	100	EH60210	08/01/06	08/02/06	EPA 6020A	
Arsenic	ND	0.170	"	"	"	"	"	"	
Selenium	**ND**	0.300	"	"	"	"	"	"	
Silver	ND	0.0405	"	"	"	"	"	"	
Cadmium	ND	0.0692	"	"	"	"	"	"	
Barium	**0.0753**	0.0489	"	"	"	"	"	"	
Lead	ND	0.0296	"	"	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (6G31006-01) Water									
Dichlorodifluoromethane	ND	100	ug/l	100	EG62611	08/01/06	08/01/06	EPA 8260B	
Chloromethane	ND	100	"	"	"	"	"	"	
Vinyl chloride	ND	100	"	"	"	"	"	"	
Bromomethane	ND	100	"	"	"	"	"	"	
Chloroethane	ND	100	"	"	"	"	"	"	
Trichlorofluoromethane	ND	100	"	"	"	"	"	"	
1,1-Dichloroethene	ND	100	"	"	"	"	"	"	
Acetone	ND	500	"	"	"	"	"	"	
Iodomethane	ND	100	"	"	"	"	"	"	
Carbon disulfide	ND	100	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	
Vinyl acetate	ND	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
Bromochloromethane	ND	100	"	"	"	"	"	"	
Chloroform	ND	100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	100	"	"	"	"	"	"	
2,2-Dichloropropane	ND	100	"	"	"	"	"	"	
Carbon tetrachloride	ND	100	"	"	"	"	"	"	
1,1-Dichloropropene	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
Benzene	**2540**	100	"	"	"	"	"	"	
Trichloroethene	ND	100	"	"	"	"	"	"	
1,2-Dichloropropane	ND	100	"	"	"	"	"	"	
Dibromomethane	ND	100	"	"	"	"	"	"	
Bromodichloromethane	ND	100	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	100	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Toluene	**10200**	100	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	100	"	"	"	"	"	"	
Tetrachloroethene	ND	100	"	"	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
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Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (6G31006-01) Water									
1,3-Dichloropropane	ND	100	ug/l	100	EG62611	08/01/06	08/01/06	EPA 8260B	
Dibromochloromethane	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
Chlorobenzene	ND	100	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	100	"	"	"	"	"	"	
Ethylbenzene	**2470**	100	"	"	"	"	"	"	
m,p-Xylene	**11400**	100	"	"	"	"	"	"	
o-Xylene	**5690**	100	"	"	"	"	"	"	
Styrene	ND	100	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	100	"	"	"	"	"	"	
Isopropylbenzene	**706**	100	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	100	"	"	"	"	"	"	
Bromobenzene	ND	100	"	"	"	"	"	"	
n-Propylbenzene	**913**	100	"	"	"	"	"	"	
2-Chlorotoluene	ND	100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**3870**	100	"	"	"	"	"	"	
4-Chlorotoluene	ND	100	"	"	"	"	"	"	
tert-Butylbenzene	**J [78.2]**	100	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	**4750**	100	"	"	"	"	"	"	
sec-Butylbenzene	**373**	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"	
p-Isopropyltoluene	**442**	100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
n-Butylbenzene	**592**	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"	
Hexachlorobutadiene	ND	100	"	"	"	"	"	"	
Naphthalene	**120**	100	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*68-129*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.4 %*		*72-132*	"	"	"	"	
Surrogate: Toluene-d8		*84.4 %*		*74-118*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.2 %*		*65-140*	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (6G31006-02) Water									
Dichlorodifluoromethane	ND	1.00	ug/l	1	EG62611	08/01/06	08/01/06	EPA 8260B	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
Acetone	ND	5.00	"	"	"	"	"	"	
Iodomethane	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Acrylonitrile	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Vinyl acetate	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
2-Butanone	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	1.00	"	"	"	"	"	"	
Toluene	**J [0.740]**	1.00	"	"	"	"	"	"	J
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

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Project Number: None Given
Project Manager: Mike Griffin

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Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (6G31006-02) Water									
1,3-Dichloropropane	ND	1.00	ug/l	1	EG62611	08/01/06	08/01/06	EPA 8260B	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	1.00	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*68-129*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*85.8 %*	*72-132*		"	"	"	"	
Surrogate: Toluene-d8		*85.8 %*	*74-118*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.0 %*	*65-140*		"	"	"	"	

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2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 (6G31006-03) Water									
Dichlorodifluoromethane	ND	1.00	ug/l	1	EG62611	08/01/06	08/03/06	EPA 8260B	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
Acetone	ND	5.00	"	"	"	"	"	"	
Iodomethane	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Acrylonitrile	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Vinyl acetate	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
2-Butanone	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 (6G31006-03) Water									
1,3-Dichloropropane	ND	1.00	ug/l	1	EG62611	08/01/06	08/03/06	EPA 8260B	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	1.00	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	*ND*	*1.00*	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.0 %*	*68-129*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84.4 %*	*72-132*		"	"	"	"	
Surrogate: Toluene-d8		*86.0 %*	*74-118*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.4 %*	*65-140*		"	"	"	"	

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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 EH60306 - General Preparation (WetChem)										
Blank (EH60306-BLK1)				Prepared & Analyzed: 08/03/06						
Chloride	ND	0.500	mg/L							
LCS (EH60306-BS1)				Prepared & Analyzed: 08/03/06						
Chloride	9.71	0.500	mg/L	10.0		97.1	80-120			
Calibration Check (EH60306-CCV1)				Prepared & Analyzed: 08/03/06						
Chloride	9.89		mg/L	10.0		98.9	80-120			
Duplicate (EH60306-DUP1)	**Source: 6H02012-01**			Prepared & Analyzed: 08/03/06						
Chloride	ND	0.500	mg/L		ND				20	
Matrix Spike (EH60306-MS1)	**Source: 6H02012-01**			Prepared & Analyzed: 08/03/06						
Chloride	10.2	0.500	mg/L	10.0	ND	102	80-120			
Batch EH60317 - General Preparation (WetChem)										
Calibration Check (EH60317-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Duplicate (EH60317-DUP1)	**Source: 6G31006-01RE1**			Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1130	5.00	umhos/cm		1150			1.75	20	
Batch EH60901 - Filtration Preparation										
Blank (EH60901-BLK1)				Prepared: 08/04/06 Analyzed: 08/08/06						
Total Dissolved Solids	ND	10.0	mg/L							

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60901 - Filtration Preparation										
Duplicate (EH60901-DUP1)	**Source: 6H03002-01**			Prepared: 08/04/06 Analyzed: 08/08/06						
Total Dissolved Solids	470	10.0	mg/L		444			5.69	5	R5

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Total Metals 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 EH60210 - EPA 3005A										
Blank (EH60210-BLK1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	ND	0.000698	mg/L							
Arsenic	ND	0.00170	"							
Selenium	ND	0.00300	"							
Silver	ND	0.000405	"							
Cadmium	ND	0.000692	"							
Barium	ND	0.000489	"							
Lead	ND	0.000296	"							
LCS (EH60210-BS1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	0.200	0.000698	mg/L	0.200		100	85-115			
Arsenic	0.750	0.00170	"	0.800		93.8	85-115			
Selenium	0.418	0.00300	"	0.400		104	85-115			
Silver	0.104	0.000405	"	0.100		104	85-115			
Cadmium	0.205	0.000692	"	0.200		102	85-115			
Barium	0.204	0.000489	"	0.200		102	85-115			
Lead	1.09	0.000296	"	1.10		99.1	85-115			
LCS Dup (EH60210-BSD1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	0.200	0.000698	mg/L	0.200		100	85-115	0.00	20	
Arsenic	0.718	0.00170	"	0.800		89.8	85-115	4.36	20	
Selenium	0.401	0.00300	"	0.400		100	85-115	4.15	20	
Silver	0.101	0.000405	"	0.100		101	85-115	2.93	20	
Cadmium	0.201	0.000692	"	0.200		100	85-115	1.97	20	
Barium	0.209	0.000489	"	0.200		104	85-115	2.42	20	
Lead	1.09	0.000296	"	1.10		99.1	85-115	0.00	20	
Calibration Check (EH60210-CCV1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	0.0486		mg/L	0.0500		97.2	90-110			
Arsenic	0.0512		"	0.0500		102	90-110			
Selenium	0.0521		"	0.0500		104	90-110			
Silver	0.0513		"	0.0500		103	90-110			
Cadmium	0.0508		"	0.0500		102	90-110			
Barium	0.0514		"	0.0500		103	90-110			
Lead	0.0486		"	0.0500		97.2	90-110			

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Total Metals 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 EH60210 - EPA 3005A										
Matrix Spike (EH60210-MS1)	**Source: 6G31004-01**			Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	0.202	0.00174	mg/L	0.200	0.0281	87.0	75-125			
Arsenic	0.767	0.00426	"	0.800	ND	95.9	75-125			
Selenium	0.248	0.00751	"	0.400	0.00435	60.9	75-125			MS-4
Silver	0.0847	0.00101	"	0.100	0.00436	80.3	75-125			
Cadmium	0.185	0.00173	"	0.200	ND	92.5	75-125			
Barium	0.206	0.00122	"	0.200	0.0250	90.5	75-125			
Lead	0.973	0.000740	"	1.10	0.00239	88.2	75-125			
Matrix Spike Dup (EH60210-MSD1)	**Source: 6G31004-01**			Prepared: 08/01/06 Analyzed: 08/02/06						
Chromium	0.202	0.00174	mg/L	0.200	0.0281	87.0	75-125	0.00	20	
Arsenic	0.769	0.00426	"	0.800	ND	96.1	75-125	0.260	20	
Selenium	0.255	0.00751	"	0.400	0.00435	62.7	75-125	2.78	20	MS-4
Silver	0.0852	0.00101	"	0.100	0.00436	80.8	75-125	0.589	20	
Cadmium	0.184	0.00173	"	0.200	ND	92.0	75-125	0.542	20	
Barium	0.206	0.00122	"	0.200	0.0250	90.5	75-125	0.00	20	
Lead	0.978	0.000740	"	1.10	0.00239	88.7	75-125	0.513	20	
Post Spike (EH60210-PS1)	**Source: 6G31004-01**			Prepared: 08/01/06 Analyzed: 08/02/06						
Selenium	5.66	0.0376	mg/L	5.00	0.00435	113	85-115			
Batch EH60211 - EPA 7470A										
Blank (EH60211-BLK1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	ND	0.000250	mg/L							
LCS (EH60211-BS1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	0.00100	0.000250	mg/L	0.00100		100	85-115			

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Total Metals 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 EH60211 - EPA 7470A										
LCS Dup (EH60211-BSD1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	0.000950	0.000250	mg/L	0.00100		95.0	85-115	5.13	20	
Calibration Check (EH60211-CCV1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	0.00100		mg/L	0.00100		100	90-110			
Matrix Spike (EH60211-MS1)		**Source: 6G31004-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	0.000790	0.000250	mg/L	0.00100	0.000460	33.0	75-125			PS-1
Post Spike (EH60211-PS1)		**Source: 6G31004-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Mercury	0.000980	0.000250	mg/L	0.00100	0.000460	52.0	85-115			PS-1

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
Blank (EG62611-BLK1)				Prepared: 07/26/06 Analyzed: 07/28/06						
Dichlorodifluoromethane	ND	1.00	ug/l							
Chloromethane	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
Bromomethane	ND	1.00	"							
Chloroethane	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,1-Dichloroethene	ND	1.00	"							
Acetone	ND	5.00	"							
Iodomethane	ND	1.00	"							
Carbon disulfide	ND	1.00	"							
Methylene chloride	ND	1.00	"							
trans-1,2-Dichloroethene	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Acrylonitrile	ND	1.00	"							
1,1-Dichloroethane	ND	1.00	"							
Vinyl acetate	ND	1.00	"							
cis-1,2-Dichloroethene	ND	1.00	"							
2-Butanone	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Chloroform	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
2,2-Dichloropropane	ND	1.00	"							
Carbon tetrachloride	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							
1,2-Dichloroethane	ND	1.00	"							
Benzene	ND	1.00	"							
Trichloroethene	ND	1.00	"							
1,2-Dichloropropane	ND	1.00	"							
Dibromomethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
2-Chloroethylvinyl ether	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
4-Methyl-2-pentanone	ND	1.00	"							
Toluene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
2-Hexanone	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
1,3-Dichloropropane	ND	1.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane (EDB)	ND	1.00	"							
Chlorobenzene	ND	1.00	"							

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
Blank (EG62611-BLK1)				Prepared: 07/26/06 Analyzed: 07/28/06						
1,1,1,2-Tetrachloroethane	ND	1.00	ug/l							
Ethylbenzene	ND	1.00	"							
m,p-Xylene	ND	1.00	"							
o-Xylene	ND	1.00	"							
Styrene	ND	1.00	"							
Bromoform	ND	1.00	"							
trans-1,4-Dichloro-2-butene	ND	1.00	"							
Isopropylbenzene	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Bromobenzene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
2-Chlorotoluene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
n-Butylbenzene	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
Hexachlorobutadiene	ND	1.00	"							
Naphthalene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
Surrogate: Dibromofluoromethane	*50.1*		"	*50.0*		*100*	*68-129*			
Surrogate: 1,2-Dichloroethane-d4	*45.4*		"	*50.0*		*90.8*	*72-132*			
Surrogate: Toluene-d8	*42.4*		"	*50.0*		*84.8*	*74-118*			
Surrogate: 4-Bromofluorobenzene	*38.0*		"	*50.0*		*76.0*	*65-140*			

WHOLE EARTH ENVIRONMENTAL
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
LCS (EG62611-BS1)				Prepared: 07/26/06 Analyzed: 07/28/06						
1,1-Dichloroethene	28.2	1.00	ug/l	25.0		113	60-140			
Methylene chloride	23.2	1.00	"	25.0		92.8	60-140			
trans-1,2-Dichloroethene	25.0	1.00	"	25.0		100	60-140			
1,1-Dichloroethane	23.7	1.00	"	25.0		94.8	60-140			
cis-1,2-Dichloroethene	24.8	1.00	"	25.0		99.2	60-140			
Bromochloromethane	22.9	1.00	"	25.0		91.6	60-140			
Chloroform	24.8	1.00	"	25.0		99.2	60-140			
1,1,1-Trichloroethane	25.3	1.00	"	25.0		101	60-140			
2,2-Dichloropropane	27.3	1.00	"	25.0		109	60-140			
Carbon tetrachloride	23.9	1.00	"	25.0		95.6	60-140			
1,1-Dichloropropene	23.7	1.00	"	25.0		94.8	60-140			
1,2-Dichloroethane	24.7	1.00	"	25.0		98.8	60-140			
Benzene	22.2	1.00	"	25.0		88.8	60-140			
Trichloroethene	23.7	1.00	"	25.0		94.8	60-140			
1,2-Dichloropropane	20.8	1.00	"	25.0		83.2	60-140			
Dibromomethane	22.6	1.00	"	25.0		90.4	60-140			
Bromodichloromethane	22.8	1.00	"	25.0		91.2	60-140			
cis-1,3-Dichloropropene	23.5	1.00	"	25.0		94.0	60-140			
Toluene	23.8	1.00	"	25.0		95.2	60-140			
trans-1,3-Dichloropropene	27.0	1.00	"	25.0		108	60-140			
1,1,2-Trichloroethane	24.4	1.00	"	25.0		97.6	60-140			
Tetrachloroethene	17.4	1.00	"	25.0		69.6	60-140			
1,3-Dichloropropane	22.5	1.00	"	25.0		90.0	60-140			
Dibromochloromethane	24.2	1.00	"	25.0		96.8	60-140			
1,2-Dibromoethane (EDB)	25.8	1.00	"	25.0		103	60-140			
Chlorobenzene	25.7	1.00	"	25.0		103	60-140			
1,1,1,2-Tetrachloroethane	26.3	1.00	"	25.0		105	60-140			
Ethylbenzene	25.2	1.00	"	25.0		101	60-140			
m,p-Xylene	46.0	1.00	"	50.0		92.0	60-140			
o-Xylene	24.8	1.00	"	25.0		99.2	60-140			
Styrene	21.3	1.00	"	25.0		85.2	60-140			
Bromoform	23.0	1.00	"	25.0		92.0	60-140			
Isopropylbenzene	27.6	1.00	"	25.0		110	60-140			
1,1,2,2-Tetrachloroethane	21.9	1.00	"	25.0		87.6	60-140			
Bromobenzene	22.6	1.00	"	25.0		90.4	60-140			
n-Propylbenzene	23.5	1.00	"	25.0		94.0	60-140			
2-Chlorotoluene	23.4	1.00	"	25.0		93.6	60-140			
1,3,5-Trimethylbenzene	24.3	1.00	"	25.0		97.2	60-140			
4-Chlorotoluene	24.0	1.00	"	25.0		96.0	60-140			
tert-Butylbenzene	25.4	1.00	"	25.0		102	60-140			
1,2,4-Trimethylbenzene	23.8	1.00	"	25.0		95.2	60-140			
sec-Butylbenzene	22.6	1.00	"	25.0		90.4	60-140			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
LCS (EG62611-BS1)				Prepared: 07/26/06 Analyzed: 07/28/06						
1,3-Dichlorobenzene	26.5	1.00	ug/l	25.0		106	60-140			
p-Isopropyltoluene	26.0	1.00	"	25.0		104	60-140			
1,4-Dichlorobenzene	24.9	1.00	"	25.0		99.6	60-140			
n-Butylbenzene	24.4	1.00	"	25.0		97.6	60-140			
1,2-Dichlorobenzene	26.3	1.00	"	25.0		105	60-140			
1,2-Dibromo-3-chloropropane	22.2	1.00	"	25.0		88.8	60-140			
1,2,4-Trichlorobenzene	27.8	1.00	"	25.0		111	60-140			
Hexachlorobutadiene	29.4	1.00	"	25.0		118	60-140			
Naphthalene	23.2	1.00	"	25.0		92.8	60-140			
1,2,3-Trichlorobenzene	27.2	1.00	"	25.0		109	60-140			
Surrogate: Dibromofluoromethane	*46.1*		"	*50.0*		*92.2*	*68-129*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		"	*50.0*		*90.4*	*72-132*			
Surrogate: Toluene-d8	*43.5*		"	*50.0*		*87.0*	*74-118*			
Surrogate: 4-Bromofluorobenzene	*39.8*		"	*50.0*		*79.6*	*65-140*			
Calibration Check (EG62611-CCV1)				Prepared: 07/26/06 Analyzed: 07/28/06						
Vinyl chloride	42.0		ug/l	50.0		84.0	70-130			
,1-Dichloroethene	50.2		"	50.0		100	70-130			
Chloroform	43.7		"	50.0		87.4	70-130			
1,2-Dichloropropane	36.8		"	50.0		73.6	70-130			
Toluene	40.2		"	50.0		80.4	70-130			
Ethylbenzene	41.2		"	50.0		82.4	70-130			
Surrogate: Dibromofluoromethane	*46.0*		"	*50.0*		*92.0*	*68-129*			
Surrogate: 1,2-Dichloroethane-d4	*41.9*		"	*50.0*		*83.8*	*72-132*			
Surrogate: Toluene-d8	*43.7*		"	*50.0*		*87.4*	*74-118*			
Surrogate: 4-Bromofluorobenzene	*38.9*		"	*50.0*		*77.8*	*65-140*			
Matrix Spike (EG62611-MS1)	**Source: 6G24001-05**			Prepared: 07/26/06 Analyzed: 08/03/06						
1,1-Dichloroethene	27.7	1.00	ug/l	25.0	ND	111	61-145			
Methylene chloride	24.0	1.00	"	25.0	ND	96.0	60-140			
trans-1,2-Dichloroethene	25.0	1.00	"	25.0	ND	100	60-140			
1,1-Dichloroethane	24.5	1.00	"	25.0	ND	98.0	60-140			
cis-1,2-Dichloroethene	26.1	1.00	"	25.0	ND	104	60-140			
Bromochloromethane	24.7	1.00	"	25.0	ND	98.8	60-140			
Chloroform	26.2	1.00	"	25.0	ND	105	60-140			
1,1,1-Trichloroethane	24.7	1.00	"	25.0	ND	98.8	60-140			
2,2-Dichloropropane	22.1	1.00	"	25.0	ND	88.4	60-140			
Carbon tetrachloride	22.2	1.00	"	25.0	ND	88.8	60-140			
1,1-Dichloropropene	21.4	1.00	"	25.0	ND	85.6	60-140			
1,2-Dichloroethane	24.9	1.00	"	25.0	ND	99.6	60-140			
Benzene	21.3	1.00	"	25.0	ND	85.2	76-127			
Trichloroethene	22.6	1.00	"	25.0	ND	90.4	71-120			
1,2-Dichloropropane	20.4	1.00	"	25.0	ND	81.6	60-140			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
Matrix Spike (EG62611-MS1)	**Source: 6G24001-05**			Prepared: 07/26/06 Analyzed: 08/03/06						
Dibromomethane	22.4	1.00	ug/l	25.0	ND	89.6	60-140			
Bromodichloromethane	22.9	1.00	"	25.0	ND	91.6	60-140			
cis-1,3-Dichloropropene	22.9	1.00	"	25.0	ND	91.6	60-140			
Toluene	22.8	1.00	"	25.0	ND	91.2	76-125			
trans-1,3-Dichloropropene	25.4	1.00	"	25.0	ND	102	60-140			
1,1,2-Trichloroethane	24.7	1.00	"	25.0	ND	98.8	60-140			
Tetrachloroethene	15.9	1.00	"	25.0	ND	63.6	60-140			
1,3-Dichloropropane	22.5	1.00	"	25.0	ND	90.0	60-140			
Dibromochloromethane	24.4	1.00	"	25.0	ND	97.6	60-140			
1,2-Dibromoethane (EDB)	25.6	1.00	"	25.0	ND	102	60-140			
Chlorobenzene	25.1	1.00	"	25.0	ND	100	75-130			
1,1,1,2-Tetrachloroethane	26.0	1.00	"	25.0	ND	104	60-140			
Ethylbenzene	23.6	1.00	"	25.0	ND	94.4	60-140			
m,p-Xylene	43.0	1.00	"	50.0	ND	86.0	60-140			
o-Xylene	23.7	1.00	"	25.0	ND	94.8	60-140			
Styrene	15.0	1.00	"	25.0	ND	60.0	60-140			
Bromoform	22.7	1.00	"	25.0	ND	90.8	60-140			
Isopropylbenzene	26.1	1.00	"	25.0	ND	104	60-140			
1,1,2,2-Tetrachloroethane	22.0	1.00	"	25.0	ND	88.0	60-140			
Bromobenzene	21.6	1.00	"	25.0	ND	86.4	60-140			
n-Propylbenzene	21.1	1.00	"	25.0	ND	84.4	60-140			
2-Chlorotoluene	22.2	1.00	"	25.0	ND	88.8	60-140			
1,3,5-Trimethylbenzene	22.6	1.00	"	25.0	ND	90.4	60-140			
4-Chlorotoluene	22.2	1.00	"	25.0	ND	88.8	60-140			
tert-Butylbenzene	25.1	1.00	"	25.0	ND	100	60-140			
1,2,4-Trimethylbenzene	21.5	1.00	"	25.0	ND	86.0	60-140			
sec-Butylbenzene	21.1	1.00	"	25.0	ND	84.4	60-140			
1,3-Dichlorobenzene	24.3	1.00	"	25.0	ND	97.2	60-140			
p-Isopropyltoluene	24.4	1.00	"	25.0	ND	97.6	60-140			
1,4-Dichlorobenzene	24.8	1.00	"	25.0	ND	99.2	60-140			
n-Butylbenzene	22.1	1.00	"	25.0	ND	88.4	60-140			
1,2-Dichlorobenzene	25.7	1.00	"	25.0	ND	103	60-140			
1,2-Dibromo-3-chloropropane	22.0	1.00	"	25.0	ND	88.0	60-140			
1,2,4-Trichlorobenzene	26.8	1.00	"	25.0	ND	107	60-140			
Hexachlorobutadiene	26.5	1.00	"	25.0	ND	106	60-140			
Naphthalene	23.4	1.00	"	25.0	ND	93.6	60-140			
1,2,3-Trichlorobenzene	27.3	1.00	"	25.0	ND	109	60-140			
Surrogate: Dibromofluoromethane	*50.5*		"	*50.0*		*101*	*68-129*			
Surrogate: 1,2-Dichloroethane-d4	*45.9*		"	*50.0*		*91.8*	*72-132*			
Surrogate: Toluene-d8	*43.2*		"	*50.0*		*86.4*	*74-118*			
Surrogate: 4-Bromofluorobenzene	*40.2*		"	*50.0*		*80.4*	*65-140*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
Matrix Spike Dup (EG62611-MSD1)	**Source: 6G24001-05**			Prepared: 07/26/06 Analyzed: 08/03/06						
1,1-Dichloroethene	29.0	1.00	ug/l	25.0	ND	116	61-145	4.59	14	
Methylene chloride	23.2	1.00	"	25.0	ND	92.8	60-140	3.39	20	
trans-1,2-Dichloroethene	24.7	1.00	"	25.0	ND	98.8	60-140	1.21	20	
1,1-Dichloroethane	23.8	1.00	"	25.0	ND	95.2	60-140	2.90	20	
cis-1,2-Dichloroethene	25.2	1.00	"	25.0	ND	101	60-140	3.51	20	
Bromochloromethane	23.5	1.00	"	25.0	ND	94.0	60-140	4.98	20	
Chloroform	25.3	1.00	"	25.0	ND	101	60-140	3.50	20	
1,1,1-Trichloroethane	25.8	1.00	"	25.0	ND	103	60-140	4.36	20	
2,2-Dichloropropane	24.6	1.00	"	25.0	ND	98.4	60-140	10.7	20	
Carbon tetrachloride	23.9	1.00	"	25.0	ND	95.6	60-140	7.38	20	
1,1-Dichloropropene	22.8	1.00	"	25.0	ND	91.2	60-140	6.33	20	
1,2-Dichloroethane	23.7	1.00	"	25.0	ND	94.8	60-140	4.94	20	
Benzene	21.4	1.00	"	25.0	ND	85.6	76-127	0.468	11	
Trichloroethene	23.0	1.00	"	25.0	ND	92.0	71-120	1.75	14	
1,2-Dichloropropane	20.4	1.00	"	25.0	ND	81.6	60-140	0.00	20	
Dibromomethane	22.1	1.00	"	25.0	ND	88.4	60-140	1.35	20	
Bromodichloromethane	22.6	1.00	"	25.0	ND	90.4	60-140	1.32	20	
cis-1,3-Dichloropropene	22.6	1.00	"	25.0	ND	90.4	60-140	1.32	20	
Toluene	23.0	1.00	"	25.0	ND	92.0	76-125	0.873	13	
trans-1,3-Dichloropropene	25.7	1.00	"	25.0	ND	103	60-140	1.17	20	
1,1,2-Trichloroethane	24.1	1.00	"	25.0	ND	96.4	60-140	2.46	20	
Tetrachloroethene	16.6	1.00	"	25.0	ND	66.4	60-140	4.31	20	
1,3-Dichloropropane	21.8	1.00	"	25.0	ND	87.2	60-140	3.16	20	
Dibromochloromethane	24.2	1.00	"	25.0	ND	96.8	60-140	0.823	20	
1,2-Dibromoethane (EDB)	25.3	1.00	"	25.0	ND	101	60-140	1.18	20	
Chlorobenzene	25.2	1.00	"	25.0	ND	101	75-130	0.398	13	
1,1,1,2-Tetrachloroethane	26.4	1.00	"	25.0	ND	106	60-140	1.53	20	
Ethylbenzene	24.2	1.00	"	25.0	ND	96.8	60-140	2.51	20	
m,p-Xylene	44.0	1.00	"	50.0	ND	88.0	60-140	2.30	20	
o-Xylene	24.3	1.00	"	25.0	ND	97.2	60-140	2.50	20	
Styrene	16.2	1.00	"	25.0	ND	64.8	60-140	7.69	20	
Bromoform	22.5	1.00	"	25.0	ND	90.0	60-140	0.885	20	
Isopropylbenzene	27.9	1.00	"	25.0	ND	112	60-140	6.67	20	
1,1,2,2-Tetrachloroethane	22.3	1.00	"	25.0	ND	89.2	60-140	1.35	20	
Bromobenzene	22.9	1.00	"	25.0	ND	91.6	60-140	5.84	20	
n-Propylbenzene	22.6	1.00	"	25.0	ND	90.4	60-140	6.86	20	
2-Chlorotoluene	23.7	1.00	"	25.0	ND	94.8	60-140	6.54	20	
1,3,5-Trimethylbenzene	23.8	1.00	"	25.0	ND	95.2	60-140	5.17	20	
4-Chlorotoluene	22.9	1.00	"	25.0	ND	91.6	60-140	3.10	20	
tert-Butylbenzene	25.5	1.00	"	25.0	ND	102	60-140	1.58	20	
1,2,4-Trimethylbenzene	23.1	1.00	"	25.0	ND	92.4	60-140	7.17	20	
sec-Butylbenzene	21.9	1.00	"	25.0	ND	87.6	60-140	3.72	20	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG62611 - EPA 5030C (GCMS)										
Matrix Spike Dup (EG62611-MSD1)	**Source: 6G24001-05**			Prepared: 07/26/06 Analyzed: 08/03/06						
1,3-Dichlorobenzene	25.5	1.00	ug/l	25.0	ND	102	60-140	4.82	20	
p-Isopropyltoluene	24.7	1.00	"	25.0	ND	98.8	60-140	1.22	20	
1,4-Dichlorobenzene	25.3	1.00	"	25.0	ND	101	60-140	2.00	20	
n-Butylbenzene	22.1	1.00	"	25.0	ND	88.4	60-140	0.00	20	
1,2-Dichlorobenzene	26.4	1.00	"	25.0	ND	106	60-140	2.69	20	
1,2-Dibromo-3-chloropropane	23.3	1.00	"	25.0	ND	93.2	60-140	5.74	20	
1,2,4-Trichlorobenzene	27.1	1.00	"	25.0	ND	108	60-140	1.11	20	
Hexachlorobutadiene	23.6	1.00	"	25.0	ND	94.4	60-140	11.6	20	
Naphthalene	26.1	1.00	"	25.0	ND	104	60-140	10.9	20	
1,2,3-Trichlorobenzene	27.6	1.00	"	25.0	ND	110	60-140	1.09	20	
Surrogate: Dibromofluoromethane	*47.3*		"	*50.0*		*94.6*	*68-129*			
Surrogate: 1,2-Dichloroethane-d4	*43.2*		"	*50.0*		*86.4*	*72-132*			
Surrogate: Toluene-d8	*42.3*		"	*50.0*		*84.6*	*74-118*			
Surrogate: 4-Bromofluorobenzene	*40.3*		"	*50.0*		*80.6*	*65-140*			

Notes and Definitions

R5	RPD is outside of historic values
PS-1	Matix spike recoveries were outside method and/or historical control limits due to matrix interference. Interference was confirmed by similar results from a post matrix spike.
MS-4	Matrix spike and/or matrix spike duplicate outside 75-125% acceptance limits. Serial dilution (x5) within10% RPD limits. Post spike on serial dilution sample within 75-125% recovery limits indicating matrix interference.
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: 8/11/2006

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.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin

Company Name: Whole Earth Environmental, Inc.

Company Address: 2103 Arbor Cove

City/State/Zip: Katy, TX 77494

Telephone No: 281.394.2050 Fax No: 281.394.2051

Sampler Signature:

Project Name: Avalon Hills

Project #:

Project Loc:

PO #:

663006

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / ~~Cl / SAR / EC~~ (cancel)	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	~~Semivolatiles~~ CANCEL	~~BTEX 8021B/5030~~ CANCEL	Chlorides	S.A.R.	E.C.	pH	RUSH TAT (Pre-Schedule)	Standard TAT
-01	BH-1	07/31/06		4	X		X					X				X				X	X	X	X	X		X			
-02	BH-2	07/31/06		4	X		X					X				X				X	X	X	X	X		X			
NO SAMPLE	~~BH-3A~~	~~07/31/06~~		~~4~~	~~X~~		~~X~~					~~X~~				~~X~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~			
-03	BH-4	07/31/06		4	X		X					X				X				X	X	X	X	X		X			

TCLP:
TOTAL: X X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin [signature]	7/31/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT: [signature]	7/31/06	2:15

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 3.0
Laboratory Comments: 3-1L plastic squirt bottle, 1-4oz glass, 2 VOA HCl/water, no labels

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31007

Report Date: 08/04/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 85'	6G31007-01	Soil	2006-07-26 00:00	2006-07-31 14:15
BH 97'	6G31007-02	Soil	2006-07-26 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 85' (6G31007-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/03/06	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		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.0 %*	*70-130*		"	"	"	"	
BH 97' (6G31007-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/03/06	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		*98.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.2 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 85' (6G31007-01) Soil									
Chloride	**39.4**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**962**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**10.6**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 97' (6G31007-02) Soil									
Chloride	**54.4**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1420**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**12.5**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

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

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EH60114 - EPA 5030C (GC)										
Blank (EH60114-BLK1)				Prepared: 08/01/06 Analyzed: 08/02/06						
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	*35.5*		*ug/kg*	*40.0*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.2*		*"*	*40.0*		*83.0*	*80-120*			
(EH60114-BS1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	1.20	0.0250	mg/kg wet	1.25		96.0	80-120			
Toluene	1.27	0.0250	"	1.25		102	80-120			
Ethylbenzene	1.13	0.0250	"	1.25		90.4	80-120			
Xylene (p/m)	2.68	0.0250	"	2.50		107	80-120			
Xylene (o)	1.33	0.0250	"	1.25		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*ug/kg*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.8*		*"*	*40.0*		*97.0*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60114 - EPA 5030C (GC)										
Calibration Check (EH60114-CCV1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	53.8		ug/kg	50.0		108	80-120			
Toluene	54.3		"	50.0		109	80-120			
Ethylbenzene	51.0		"	50.0		102	80-120			
Xylene (p/m)	110		"	100		110	80-120			
Xylene (o)	54.8		"	50.0		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.1*		"	*40.0*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.0*		"	*40.0*		*82.5*	*80-120*			
Matrix Spike (EH60114-MS1)		**Source: 6G28010-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	1.43	0.0250	mg/kg dry	1.39	ND	103	80-120			
Toluene	1.44	0.0250	"	1.39	ND	104	80-120			
Ethylbenzene	1.37	0.0250	"	1.39	ND	98.6	80-120			
Xylene (p/m)	3.09	0.0250	"	2.78	ND	111	80-120			
Xylene (o)	1.51	0.0250	"	1.39	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.9*		*ug/kg*	*40.0*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		"	*40.0*		*92.2*	*80-120*			
Matrix Spike Dup (EH60114-MSD1)		**Source: 6G28010-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	1.30	0.0250	mg/kg dry	1.39	ND	93.5	80-120	9.67	20	
Toluene	1.37	0.0250	"	1.39	ND	98.6	80-120	5.33	20	
Ethylbenzene	1.29	0.0250	"	1.39	ND	92.8	80-120	6.06	20	
Xylene (p/m)	2.88	0.0250	"	2.78	ND	104	80-120	6.51	20	
Xylene (o)	1.42	0.0250	"	1.39	ND	102	80-120	6.64	20	
Surrogate: a,a,a-Trifluorotoluene	*32.7*		*ug/kg*	*40.0*		*81.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		"	*40.0*		*92.5*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		Source: 6G31003-01		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		Source: 6G31010-04		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60203 - Water Extraction										
Blank (EH60203-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60203-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.31	0.500	mg/kg	10.0		93.1	80-120			
Calibration Check (EH60203-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EH60203-DUP1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
[illegible]de	38.5	5.00	mg/kg		39.4			2.31	20	
Duplicate (EH60203-DUP2)		Source: 6G31009-02		Prepared & Analyzed: 08/02/06						
Chloride	13.2	5.00	mg/kg		14.3			8.00	20	
Matrix Spike (EH60203-MS1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
Chloride	139	5.00	mg/kg	100	39.4	99.6	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60203 - Water Extraction										
Matrix Spike (EH60203-MS2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	114	5.00	mg/kg	100	14.3	99.7	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	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: 8-04-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050
Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

6G31007

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	SAR	E.C.	pH			RUSH TAT (Pre-Schedule)	Standard TAT
6G31007																															
01	BH 2 85'	07/26/06		1	X									X				X					X	X		X					
02	BH 2 97'	07/26/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 3.0
Laboratory Comments: 4oz glass
no labels

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/26/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Carri Lees	7/28/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31008

Report Date: 08/04/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 3 10'	6G31008-01	Soil	2006-07-26 00:00	2006-07-31 14:15
BH 3 20'	6G31008-02	Soil	2006-07-26 00:00	2006-07-31 14:15
BH 3 30'	6G31008-03	Soil	2006-07-26 00:00	2006-07-31 14:15
BH 3 40'	6G31008-04	Soil	2006-07-26 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 10' (6G31008-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/03/06	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		*86.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**J [3.29]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.4 %*	*70-130*		"	"	"	"	
BH 3 20' (6G31008-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60114	08/01/06	08/03/06	EPA 8021B	
[illegible]ene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*130 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 30' (6G31008-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*85.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	
BH 3 40' (6G31008-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*93.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*130 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.6 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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' (6G31008-01) Soil									
Chloride	**12.1**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**366**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.0**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 20' (6G31008-02) Soil									
Chloride	**32.6**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**442**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**0.9**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 30' (6G31008-03) Soil									
Chloride	**24.4**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**496**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**0.8**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 40' (6G31008-04) Soil									
Chloride	**14.5**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**432**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.0**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06	Analyzed: 08/01/06					
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EH60114 - EPA 5030C (GC)										
Blank (EH60114-BLK1)				Prepared: 08/01/06	Analyzed: 08/02/06					
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	*35.5*		*ug/kg*	*40.0*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.2*		*"*	*40.0*		*83.0*	*80-120*			
[illegible](EH60114-BS1)				Prepared: 08/01/06	Analyzed: 08/02/06					
Benzene	1.20	0.0250	mg/kg wet	1.25		96.0	80-120			
Toluene	1.27	0.0250	"	1.25		102	80-120			
Ethylbenzene	1.13	0.0250	"	1.25		90.4	80-120			
Xylene (p/m)	2.68	0.0250	"	2.50		107	80-120			
Xylene (o)	1.33	0.0250	"	1.25		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*ug/kg*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.8*		*"*	*40.0*		*97.0*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60114 - EPA 5030C (GC)										
Calibration Check (EH60114-CCV1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	53.8		ug/kg	50.0		108	80-120			
Toluene	54.3		"	50.0		109	80-120			
Ethylbenzene	51.0		"	50.0		102	80-120			
Xylene (p/m)	110		"	100		110	80-120			
Xylene (o)	54.8		"	50.0		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.1*		"	*40.0*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.0*		"	*40.0*		*82.5*	*80-120*			
Matrix Spike (EH60114-MS1)		**Source: 6G28010-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	1.43	0.0250	mg/kg dry	1.39	ND	103	80-120			
Toluene	1.44	0.0250	"	1.39	ND	104	80-120			
Ethylbenzene	1.37	0.0250	"	1.39	ND	98.6	80-120			
Xylene (p/m)	3.09	0.0250	"	2.78	ND	111	80-120			
Xylene (o)	1.51	0.0250	"	1.39	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.9*		*ug/kg*	*40.0*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		"	*40.0*		*92.2*	*80-120*			
Matrix Spike Dup (EH60114-MSD1)		**Source: 6G28010-01**		Prepared: 08/01/06 Analyzed: 08/02/06						
Benzene	1.30	0.0250	mg/kg dry	1.39	ND	93.5	80-120	9.67	20	
Toluene	1.37	0.0250	"	1.39	ND	98.6	80-120	5.33	20	
Ethylbenzene	1.29	0.0250	"	1.39	ND	92.8	80-120	6.06	20	
Xylene (p/m)	2.88	0.0250	"	2.78	ND	104	80-120	6.51	20	
Xylene (o)	1.42	0.0250	"	1.39	ND	102	80-120	6.64	20	
Surrogate: a,a,a-Trifluorotoluene	*32.7*		*ug/kg*	*40.0*		*81.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		"	*40.0*		*92.5*	*80-120*			
Batch EH60303 - EPA 5030C (GC)										
Blank (EH60303-BLK1)				Prepared & Analyzed: 08/03/06						
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	*39.1*		*ug/kg*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		"	*40.0*		*88.8*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
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Project Manager: Mike Griffin

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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 EH60303 - EPA 5030C (GC)										
LCS (EH60303-BS1)				Prepared & Analyzed: 08/03/06						
Benzene	1.25	0.0250	mg/kg wet	1.25		100	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.22	0.0250	"	1.25		97.6	80-120			
Xylene (p/m)	2.76	0.0250	"	2.50		110	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.3*		*ug/kg*	*40.0*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.1*		"	*40.0*		*92.8*	*80-120*			
Calibration Check (EH60303-CCV1)				Prepared & Analyzed: 08/03/06						
Benzene	54.2		ug/kg	50.0		108	80-120			
Toluene	52.6		"	50.0		105	80-120			
Ethylbenzene	51.9		"	50.0		104	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	54.1		"	50.0		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		"	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		"	*40.0*		*81.5*	*80-120*			
Matrix Spike (EH60303-MS1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.31	0.0250	mg/kg dry	1.36	ND	96.3	80-120			
Toluene	1.35	0.0250	"	1.36	ND	99.3	80-120			
Ethylbenzene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Xylene (p/m)	2.94	0.0250	"	2.72	ND	108	80-120			
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.7*		*ug/kg*	*40.0*		*89.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		"	*40.0*		*100*	*80-120*			
Matrix Spike Dup (EH60303-MSD1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.33	0.0250	mg/kg dry	1.36	ND	97.8	80-120	1.55	20	
Toluene	1.36	0.0250	"	1.36	ND	100	80-120	0.702	20	
Ethylbenzene	1.30	0.0250	"	1.36	ND	95.6	80-120	2.33	20	
Xylene (p/m)	2.97	0.0250	"	2.72	ND	109	80-120	0.922	20	
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*40.1*		*ug/kg*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.3*		"	*40.0*		*98.2*	*80-120*			

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		Source: 6G31003-01		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		Source: 6G31010-04		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60203 - Water Extraction										
Blank (EH60203-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60203-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.31	0.500	mg/kg	10.0		93.1	80-120			
Calibration Check (EH60203-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EH60203-DUP1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
Chloride	38.5	5.00	mg/kg		39.4			2.31	20	
Duplicate (EH60203-DUP2)		Source: 6G31009-02		Prepared & Analyzed: 08/02/06						
Chloride	13.2	5.00	mg/kg		14.3			8.00	20	
Matrix Spike (EH60203-MS1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
Chloride	139	5.00	mg/kg	100	39.4	99.6	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60203 - Water Extraction										
Matrix Spike (EH60203-MS2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	114	5.00	mg/kg	100	14.3	99.7	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	20	

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2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-04-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

6473008

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP / TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chloride	SAR	E.C	pH			RUSH TAT (Pre-Schedule)	Standard TAT
-01	BH 3 10'	07/26/06		1	X									X				X					X	X		X					
02	BH 3 20'	07/26/06		1	X									X				X					X	X		X					
03	BH 3 30'	07/26/06		1	X									X				X					X	X		X					
04	BH 3 40'	07/26/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 5.0
Laboratory Comments: 4oz glass no labels

Relinquished by	Date	Time	Received by	Date	Time
M. Griffin	7/31/2006	2.15			
Relinquished by	Date	Time	Received by ELOT	Date	Time
			Laura Wells	7/31/06	2.15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31009

Report Date: 08/04/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 3 50'	6G31009-01	Soil	2006-07-27 00:00	2006-07-31 14:15
BH 3 60'	6G31009-02	Soil	2006-07-27 00:00	2006-07-31 14:15
BH 3 70'	6G31009-03	Soil	2006-07-27 00:00	2006-07-31 14:15
BH 3 80'	6G31009-04	Soil	2006-07-27 00:00	2006-07-31 14:15
BH 3 90'	6G31009-05	Soil	2006-07-27 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 50' (6G31009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**J [7.63]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*112 %*	*70-130*		"	"	"	"	
BH 3 60' (6G31009-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	EPA 8021B	
[illegible]ene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**J [7.81]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.0 %*	*70-130*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 70' (6G31009-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.0 %*	*70-130*		"	"	"	"	
BH 3 80' (6G31009-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.8 %*	*70-130*		"	"	"	"	

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Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3 90' (6G31009-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.2 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
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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
BH 3 50' (6G31009-01) Soil									
Chloride	**12.8**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**537**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.8**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 60' (6G31009-02) Soil									
Chloride	**14.3**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**367**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.1**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 70' (6G31009-03) Soil									
Chloride	**17.8**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**434**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.8**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 80' (6G31009-04) Soil									
Chloride	**20.6**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**585**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**2.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3 90' (6G31009-05) Soil									
Chloride	**45.6**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**972**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**5.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EH60303 - EPA 5030C (GC)										
Blank (EH60303-BLK1)				Prepared & Analyzed: 08/03/06						
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	*39.1*		*ug/kg*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		*"*	*40.0*		*88.8*	*80-120*			
(EH60303-BS1)				Prepared & Analyzed: 08/03/06						
Benzene	1.25	0.0250	mg/kg wet	1.25		100	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.22	0.0250	"	1.25		97.6	80-120			
Xylene (p/m)	2.76	0.0250	"	2.50		110	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.3*		*ug/kg*	*40.0*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.1*		*"*	*40.0*		*92.8*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60303 - EPA 5030C (GC)										
Calibration Check (EH60303-CCV1)				Prepared & Analyzed: 08/03/06						
Benzene	54.2		ug/kg	50.0		108	80-120			
Toluene	52.6		"	50.0		105	80-120			
Ethylbenzene	51.9		"	50.0		104	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	54.1		"	50.0		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		"	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		"	*40.0*		*81.5*	*80-120*			
Matrix Spike (EH60303-MS1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.31	0.0250	mg/kg dry	1.36	ND	96.3	80-120			
Toluene	1.35	0.0250	"	1.36	ND	99.3	80-120			
Ethylbenzene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Xylene (p/m)	2.94	0.0250	"	2.72	ND	108	80-120			
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.7*		*ug/kg*	*40.0*		*89.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		"	*40.0*		*100*	*80-120*			
Matrix Spike Dup (EH60303-MSD1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.33	0.0250	mg/kg dry	1.36	ND	97.8	80-120	1.55	20	
Toluene	1.36	0.0250	"	1.36	ND	100	80-120	0.702	20	
Ethylbenzene	1.30	0.0250	"	1.36	ND	95.6	80-120	2.33	20	
Xylene (p/m)	2.97	0.0250	"	2.72	ND	109	80-120	0.922	20	
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*40.1*		*ug/kg*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.3*		"	*40.0*		*98.2*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		**Source: 6G31003-01**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		**Source: 6G31010-04**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60203 - Water Extraction										
Blank (EH60203-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60203-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.31	0.500	mg/kg	10.0		93.1	80-120			
Calibration Check (EH60203-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EH60203-DUP1)		**Source: 6G31007-01**		Prepared & Analyzed: 08/02/06						
Chloride	38.5	5.00	mg/kg		39.4			2.31	20	
Duplicate (EH60203-DUP2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	13.2	5.00	mg/kg		14.3			8.00	20	
Matrix Spike (EH60203-MS1)		**Source: 6G31007-01**		Prepared & Analyzed: 08/02/06						
Chloride	139	5.00	mg/kg	100	39.4	99.6	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60203 - Water Extraction										
Matrix Spike (EH60203-MS2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	114	5.00	mg/kg	100	14.3	99.7	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	20	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-04-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

WA31009

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS / Cl / SAR / EC	TCLP: TPH 418.1	TCLP: TPH TX 1005/1006	TCLP: TPH 8015M GRO/DRO	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TCLP: BTEX 8021B/5030	TOTAL: Chlorides	TOTAL: SAR	TOTAL: E.C.	TOTAL: pH	RUSH TAT (Pre-Schedule)	Standard TAT
01	BH 3 50'	07/27/06		1	X									X				X						X	X		X		
02	BH 3 60'	07/27/06		1	X									X				X						X	X		X		
03	BH 3 70'	07/27/06		1	X									X				X						X	X		X		
04	BH 3 80'	07/27/06		1	X									X				X						X	X		X		
05	BH 3 90'	07/27/06		1	X									X				X						X	X		X		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 5.0
Laboratory Comments: Acc glass

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/31/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cece Keey	7/31/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31010

Report Date: 08/04/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 3A 10'	6G31010-01	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 3A 20'	6G31010-02	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 3A 30'	6G31010-03	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 3A 40'	6G31010-04	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 3A 50'	6G31010-05	Soil	2006-07-28 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 10' (6G31010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.6 %*	*70-130*		"	"	"	"	
BH 3A 20' (6G31010-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*93.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**J [5.05]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.6 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 30' (6G31010-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*83.5 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.8 %*		*80-120*		"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**J [18.8]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	**J [1.94]**	25.0	"	"	"	"	"	"	J
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.6 %*		*70-130*		"	"	"	
Surrogate: 1-Chlorooctadecane		*95.4 %*		*70-130*		"	"	"	
BH 3A 40' (6G31010-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	EPA 8021B	
[illegible]ene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.2 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.5 %*		*80-120*		"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.0 %*		*70-130*		"	"	"	
Surrogate: 1-Chlorooctadecane		*95.8 %*		*70-130*		"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 50' (6G31010-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 10' (6G31010-01) Soil									
Chloride	**32.6**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**395**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**0.8**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 20' (6G31010-02) Soil									
Chloride	**45.3**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**756**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 30' (6G31010-03) Soil									
Chloride	**31.1**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**702**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**0.9**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 40' (6G31010-04) Soil									
Chloride	**30.5**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**812**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**6.6**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 50' (6G31010-05) Soil									
Chloride	**26.5**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**750**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**4.6**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EG63125 - Solvent Extraction (GC)										
Blank (EG63125-BLK1)				Prepared & Analyzed: 07/31/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*45.5*		*mg/kg*	*50.0*		*91.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.7*		*"*	*50.0*		*91.4*	*70-130*			
LCS (EG63125-BS1)				Prepared & Analyzed: 07/31/06						
[illegible]n Ranges C6-C12	566	25.0	mg/kg wet	500		113	75-125			
Carbon Ranges C12-C28	419	25.0	"	500		83.8	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	985	25.0	"	1000		98.5	75-125			
Surrogate: 1-Chlorooctane	*49.7*		*mg/kg*	*50.0*		*99.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.9*		*"*	*50.0*		*93.8*	*70-130*			
Calibration Check (EG63125-CCV1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	292		mg/kg	250		117	80-120			
Carbon Ranges C12-C28	215		"	250		86.0	80-120			
Total Hydrocarbon nC6-nC35	507		"	500		101	80-120			
Surrogate: 1-Chlorooctane	*63.1*		*"*	*50.0*		*126*	*70-130*			
Surrogate: 1-Chlorooctadecane	*63.9*		*"*	*50.0*		*128*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63125 - Solvent Extraction (GC)										
Matrix Spike (EG63125-MS1)	**Source: 6G31003-02**			Prepared & Analyzed: 07/31/06						
Carbon Ranges C6-C12	629	25.0	mg/kg dry	529	ND	119	75-125			
Carbon Ranges C12-C28	475	25.0	"	529	ND	89.8	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1100	25.0	"	1060	ND	104	75-125			
Surrogate: 1-Chlorooctane	*52.0*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.4*		"	*50.0*		*101*	*70-130*			
Matrix Spike Dup (EG63125-MSD1)	**Source: 6G31003-02**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	627	25.0	mg/kg dry	529	ND	119	75-125	0.318	20	
Carbon Ranges C12-C28	473	25.0	"	529	ND	89.4	75-125	0.422	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1100	25.0	"	1060	ND	104	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*53.0*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.4*		"	*50.0*		*103*	*70-130*			
Batch EH60303 - EPA 5030C (GC)										
Blank (EH60303-BLK1)				Prepared & Analyzed: 08/03/06						
[illegible]ene	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	*39.1*		*ug/kg*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		"	*40.0*		*88.8*	*80-120*			
LCS (EH60303-BS1)				Prepared & Analyzed: 08/03/06						
Benzene	1.25	0.0250	mg/kg wet	1.25		100	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.22	0.0250	"	1.25		97.6	80-120			
Xylene (p/m)	2.76	0.0250	"	2.50		110	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.3*		*ug/kg*	*40.0*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.1*		"	*40.0*		*92.8*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60303 - EPA 5030C (GC)										
Calibration Check (EH60303-CCV1)				Prepared & Analyzed: 08/03/06						
Benzene	54.2		ug/kg	50.0		108	80-120			
Toluene	52.6		"	50.0		105	80-120			
Ethylbenzene	51.9		"	50.0		104	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	54.1		"	50.0		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		"	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		"	*40.0*		*81.5*	*80-120*			
Matrix Spike (EH60303-MS1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.31	0.0250	mg/kg dry	1.36	ND	96.3	80-120			
Toluene	1.35	0.0250	"	1.36	ND	99.3	80-120			
Ethylbenzene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Xylene (p/m)	2.94	0.0250	"	2.72	ND	108	80-120			
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.7*		*ug/kg*	*40.0*		*89.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		"	*40.0*		*100*	*80-120*			
Matrix Spike Dup (EH60303-MSD1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.33	0.0250	mg/kg dry	1.36	ND	97.8	80-120	1.55	20	
Toluene	1.36	0.0250	"	1.36	ND	100	80-120	0.702	20	
Ethylbenzene	1.30	0.0250	"	1.36	ND	95.6	80-120	2.33	20	
Xylene (p/m)	2.97	0.0250	"	2.72	ND	109	80-120	0.922	20	
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*40.1*		*ug/kg*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.3*		"	*40.0*		*98.2*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		**Source: 6G31003-01**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		**Source: 6G31010-04**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60203 - Water Extraction										
Blank (EH60203-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60203-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.31	0.500	mg/kg	10.0		93.1	80-120			
Calibration Check (EH60203-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EH60203-DUP1)		**Source: 6G31007-01**		Prepared & Analyzed: 08/02/06						
Chloride	38.5	5.00	mg/kg		39.4			2.31	20	
Duplicate (EH60203-DUP2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	13.2	5.00	mg/kg		14.3			8.00	20	
Matrix Spike (EH60203-MS1)		**Source: 6G31007-01**		Prepared & Analyzed: 08/02/06						
Chloride	139	5.00	mg/kg	100	39.4	99.6	80-120			

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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 EH60203 - Water Extraction										
Matrix Spike (EH60203-MS2)		**Source: 6G31009-02**		Prepared & Analyzed: 08/02/06						
Chloride	114	5.00	mg/kg	100	14.3	99.7	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
ific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	20	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-04-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050
Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

6G31010

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP/TOTAL: TDS / Cl / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	S.A.R.	E.C.	pH			RUSH TAT (Pre-Schedule)	Standard TAT
01	BH 3A 10'	07/28/06		1	X									X				X					X	X		X					
02	BH 3A 20'	07/28/06		1	X									X				X					X	X		X					
03	BH 3A 30'	07/28/06		1	X									X				X					X	X		X					
04	BH 3A 40'	07/28/06		1	X									X				X					X	X		X					
05	BH 3A 50'	07/28/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 5.0
Laboratory Comments: 40z glas

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/31/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cecil Keeg	7/31/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31011

Report Date: 08/07/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 3A 70'	6G31011-01	Soil	2006-07-30 00:00	2006-07-31 14:15
BH 3A 80'	6G31011-02	Soil	2006-07-30 00:00	2006-07-31 14:15
BH 3A 90'	6G31011-03	Soil	2006-07-30 00:00	2006-07-31 14:15
BH 3A 100'	6G31011-04	Soil	2006-07-30 00:00	2006-07-31 14:15
BH 3A 120'	6G31011-05	Soil	2006-07-31 00:00	2006-07-31 14:15
BH 3A 60'	6G31011-06	Soil	2006-07-30 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 70' (6G31011-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*83.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	
BH 3A 80' (6G31011-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/03/06	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		*90.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 90' (6G31011-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/04/06	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		*87.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	
BH 3A 100' (6G31011-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60303	08/03/06	08/04/06	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		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 120' (6G31011-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*92.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63125	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
BH 3A 60' (6G31011-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*89.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EH60107	08/01/06	08/02/06	TX 1005	
Carbon Ranges C12-C28	**J [16.9]**	25.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.6 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 3A 70' (6G31011-01) Soil									
Chloride	**38.0**	5.00	mg/kg	10	EH60203	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**936**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**10.1**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 80' (6G31011-02) Soil									
Chloride	**48.0**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**736**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**9.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 90' (6G31011-03) Soil									
Chloride	**72.7**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**964**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**16.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 100' (6G31011-04) Soil									
Chloride	**81.9**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1120**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**10.6**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 120' (6G31011-05) Soil									
Chloride	**83.5**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1030**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**18.7**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 3A 60' (6G31011-06) Soil									
Chloride	**39.4**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**697**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**2.4**	0.1	%	1	EH60202	08/01/06	08/02/06	% calculation	

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Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EG63125 - Solvent Extraction (GC)										
Blank (EG63125-BLK1)				Prepared & Analyzed: 07/31/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*45.5*		*mg/kg*	*50.0*		*91.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.7*		*"*	*50.0*		*91.4*	*70-130*			
LCS (EG63125-BS1)				Prepared & Analyzed: 07/31/06						
Carbon Ranges C6-C12	566	25.0	mg/kg wet	500		113	75-125			
Carbon Ranges C12-C28	419	25.0	"	500		83.8	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	985	25.0	"	1000		98.5	75-125			
Surrogate: 1-Chlorooctane	*49.7*		*mg/kg*	*50.0*		*99.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.9*		*"*	*50.0*		*93.8*	*70-130*			
Calibration Check (EG63125-CCV1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	292		mg/kg	250		117	80-120			
[illegible]n Ranges C12-C28	215		"	250		86.0	80-120			
Total Hydrocarbon nC6-nC35	507		"	500		101	80-120			
Surrogate: 1-Chlorooctane	*63.1*		*"*	*50.0*		*126*	*70-130*			
Surrogate: 1-Chlorooctadecane	*63.9*		*"*	*50.0*		*128*	*70-130*			
Matrix Spike (EG63125-MS1)	**Source: 6G31003-02**			Prepared & Analyzed: 07/31/06						
Carbon Ranges C6-C12	629	25.0	mg/kg dry	529	ND	119	75-125			
Carbon Ranges C12-C28	475	25.0	"	529	ND	89.8	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1100	25.0	"	1060	ND	104	75-125			
Surrogate: 1-Chlorooctane	*52.0*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.4*		*"*	*50.0*		*101*	*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 EG63125 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63125-MSD1)	**Source: 6G31003-02**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	627	25.0	mg/kg dry	529	ND	119	75-125	0.318	20	
Carbon Ranges C12-C28	473	25.0	"	529	ND	89.4	75-125	0.422	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1100	25.0	"	1060	ND	104	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*53.0*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.4*		*"*	*50.0*		*103*	*70-130*			
Batch EH60107 - Solvent Extraction (GC)										
Blank (EH60107-BLK1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.6*		*mg/kg*	*50.0*		*99.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.7*		*"*	*50.0*		*73.4*	*70-130*			
LCS (EH60107-BS1)				Prepared: 08/01/06 Analyzed: 08/02/06						
[illegible] Ranges C6-C12	536	25.0	mg/kg wet	500		107	75-125			
Carbon Ranges C12-C28	572	25.0	"	500		114	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	*59.9*		*mg/kg*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.4*		*"*	*50.0*		*80.8*	*70-130*			
Calibration Check (EH60107-CCV1)				Prepared: 08/01/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	220		mg/kg	250		88.0	80-120			
Carbon Ranges C12-C28	274		"	250		110	80-120			
Total Hydrocarbon nC6-nC35	494		"	500		98.8	80-120			
Surrogate: 1-Chlorooctane	*58.8*		*"*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.3*		*"*	*50.0*		*98.6*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EH60107 - Solvent Extraction (GC)										
Matrix Spike (EH60107-MS1)	**Source: 6G31011-06**			Prepared: 08/01/06		Analyzed: 08/02/06				
Carbon Ranges C6-C12	600	25.0	mg/kg dry	512	ND	117	75-125			
Carbon Ranges C12-C28	536	25.0	"	512	16.9	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1140	25.0	"	1020	ND	112	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.0*		*"*	*50.0*		*82.0*	*70-130*			
Matrix Spike Dup (EH60107-MSD1)	**Source: 6G31011-06**			Prepared: 08/01/06		Analyzed: 08/02/06				
Carbon Ranges C6-C12	584	25.0	mg/kg dry	512	ND	114	75-125	2.70	20	
Carbon Ranges C12-C28	592	25.0	"	512	16.9	112	75-125	9.93	20	
Carbon Ranges C28-C35	8.28	25.0	"	0.00	ND		75-125		20	J
Total Hydrocarbon nC6-nC35	1180	25.0	"	1020	ND	116	75-125	3.45	20	
Surrogate: 1-Chlorooctane	*63.9*		*mg/kg*	*50.0*		*128*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.0*		*"*	*50.0*		*102*	*70-130*			
Batch EH60303 - EPA 5030C (GC)										
Blank (EH60303-BLK1)				Prepared & Analyzed: 08/03/06						
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	*39.1*		*ug/kg*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		*"*	*40.0*		*88.8*	*80-120*			
LCS (EH60303-BS1)				Prepared & Analyzed: 08/03/06						
Benzene	1.25	0.0250	mg/kg wet	1.25		100	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.22	0.0250	"	1.25		97.6	80-120			
Xylene (p/m)	2.76	0.0250	"	2.50		110	80-120			
Xylene (o)	1.38	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.3*		*ug/kg*	*40.0*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.1*		*"*	*40.0*		*92.8*	*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 EH60303 - EPA 5030C (GC)										
Calibration Check (EH60303-CCV1)				Prepared & Analyzed: 08/03/06						
Benzene	54.2		ug/kg	50.0		108	80-120			
Toluene	52.6		"	50.0		105	80-120			
Ethylbenzene	51.9		"	50.0		104	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	54.1		"	50.0		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*"*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		*"*	*40.0*		*81.5*	*80-120*			
Matrix Spike (EH60303-MS1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.31	0.0250	mg/kg dry	1.36	ND	96.3	80-120			
Toluene	1.35	0.0250	"	1.36	ND	99.3	80-120			
Ethylbenzene	1.27	0.0250	"	1.36	ND	93.4	80-120			
Xylene (p/m)	2.94	0.0250	"	2.72	ND	108	80-120			
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.7*		*ug/kg*	*40.0*		*89.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		*"*	*40.0*		*100*	*80-120*			
Matrix Spike Dup (EH60303-MSD1)		**Source: 6H02011-01**		Prepared & Analyzed: 08/03/06						
Benzene	1.33	0.0250	mg/kg dry	1.36	ND	97.8	80-120	1.55	20	
Toluene	1.36	0.0250	"	1.36	ND	100	80-120	0.702	20	
Ethylbenzene	1.30	0.0250	"	1.36	ND	95.6	80-120	2.33	20	
Xylene (p/m)	2.97	0.0250	"	2.72	ND	109	80-120	0.922	20	
Xylene (o)	1.48	0.0250	"	1.36	ND	109	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*40.1*		*ug/kg*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.3*		*"*	*40.0*		*98.2*	*80-120*			
Batch EH60402 - EPA 5030C (GC)										
Blank (EH60402-BLK1)				Prepared & Analyzed: 08/04/06						
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	*34.6*		*ug/kg*	*40.0*		*86.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.8*		*"*	*40.0*		*92.0*	*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 EH60402 - EPA 5030C (GC)										
LCS (EH60402-BS1)				Prepared & Analyzed: 08/04/06						
Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.17	0.0250	"	1.25		93.6	80-120			
Ethylbenzene	1.15	0.0250	"	1.25		92.0	80-120			
Xylene (p/m)	2.57	0.0250	"	2.50		103	80-120			
Xylene (o)	1.28	0.0250	"	1.25		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.3*		*ug/kg*	*40.0*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-120*			
Calibration Check (EH60402-CCV1)				Prepared: 08/04/06 Analyzed: 08/06/06						
Benzene	50.6		ug/kg	50.0		101	80-120			
Toluene	49.6		"	50.0		99.2	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	51.5		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*"*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		*"*	*40.0*		*98.0*	*80-120*			
Matrix Spike (EH60402-MS1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.20	0.0250	mg/kg dry	1.28	ND	93.8	80-120			
Toluene	1.21	0.0250	"	1.28	ND	94.5	80-120			
Ethylbenzene	1.24	0.0250	"	1.28	ND	96.9	80-120			
Xylene (p/m)	2.67	0.0250	"	2.56	ND	104	80-120			
Xylene (o)	1.30	0.0250	"	1.28	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.2*		*ug/kg*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.3*		*"*	*40.0*		*90.8*	*80-120*			
Matrix Spike Dup (EH60402-MSD1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.23	0.0250	mg/kg dry	1.28	ND	96.1	80-120	2.42	20	
Toluene	1.25	0.0250	"	1.28	ND	97.7	80-120	3.33	20	
Ethylbenzene	1.25	0.0250	"	1.28	ND	97.7	80-120	0.822	20	
Xylene (p/m)	2.90	0.0250	"	2.56	ND	113	80-120	8.29	20	
Xylene (o)	1.38	0.0250	"	1.28	ND	108	80-120	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	*40.7*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		*"*	*40.0*		*98.0*	*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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		**Source: 6G31003-01**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		**Source: 6G31010-04**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60202 - General Preparation (Prep)										
Blank (EH60202-BLK1)				Prepared: 08/01/06 Analyzed: 08/02/06						
% Solids	100		%							
Duplicate (EH60202-DUP1)		**Source: 6G31011-06**		Prepared: 08/01/06 Analyzed: 08/02/06						
% Solids	96.3		%		97.6			1.34	20	
Duplicate (EH60202-DUP2)		**Source: 6H01007-09**		Prepared: 08/01/06 Analyzed: 08/02/06						
% Solids	89.9		%		90.8			0.996	20	
Batch EH60203 - Water Extraction										
Blank (EH60203-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60203-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.31	0.500	mg/kg	10.0		93.1	80-120			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60203 - Water Extraction										
Calibration Check (EH60203-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.97		mg/L	10.0		99.7	80-120			
Duplicate (EH60203-DUP1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
Chloride	38.5	5.00	mg/kg		39.4			2.31	20	
Duplicate (EH60203-DUP2)		Source: 6G31009-02		Prepared & Analyzed: 08/02/06						
Chloride	13.2	5.00	mg/kg		14.3			8.00	20	
Matrix Spike (EH60203-MS1)		Source: 6G31007-01		Prepared & Analyzed: 08/02/06						
Chloride	139	5.00	mg/kg	100	39.4	99.6	80-120			
Matrix Spike (EH60203-MS2)		Source: 6G31009-02		Prepared & Analyzed: 08/02/06						
Chloride	114	5.00	mg/kg	100	14.3	99.7	80-120			
Batch EH60204 - Water Extraction										
Blank (EH60204-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60204-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.70	0.500	mg/kg	10.0		97.0	80-120			
Calibration Check (EH60204-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.83		mg/L	10.0		98.3	80-120			
Duplicate (EH60204-DUP1)		Source: 6G31011-02		Prepared & Analyzed: 08/02/06						
Chloride	47.1	5.00	mg/kg		48.0			1.89	20	

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 EH60204 - Water Extraction										
Duplicate (EH60204-DUP2)		**Source: 6G31013-02**		Prepared & Analyzed: 08/02/06						
Chloride	173	5.00	mg/kg		176			1.72	20	
Matrix Spike (EH60204-MS1)		**Source: 6G31011-02**		Prepared & Analyzed: 08/02/06						
Chloride	152	5.00	mg/kg	100	48.0	104	80-120			
Matrix Spike (EH60204-MS2)		**Source: 6G31013-02**		Prepared & Analyzed: 08/02/06						
Chloride	285	5.00	mg/kg	100	176	109	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

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 EH60318 - Water Extraction										
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	20	

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

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-07-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

WG31011

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	SAR	EC	pH	RUSH TAT (Pre-Schedule)	Standard TAT
-01	BH 3A 70'	07/30/06		1	X									X				X					X	X		X			
-02	BH 3A 80'	07/30/06		1	X									X				X					X	X		X			
-03	BH 3A 90'	07/30/06		1	X									X				X					X	X		X			
-04	BH 3A 100'	07/30/06		1	X									X				X					X	X		X			
-05	BH 3A 120'	7-31-06		1	X									X				X					X	X		X			
-06	BH-3A 60'	07-30-06		1	X									X				X					X	X		X			

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 3.0
Laboratory Comments: 4oz glass

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin	7/31/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cheri Lee	7/31/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31012

Report Date: 08/07/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 4 10'	6G31012-01	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 4 20'	6G31012-02	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 4 30'	6G31012-03	Soil	2006-07-28 00:00	2006-07-31 14:15
BH 4 40'	6G31012-04	Soil	2006-07-28 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 10' (6G31012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*90.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.8 %*	*70-130*		"	"	"	"	
BH 4 20' (6G31012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.0 %*	*70-130*		"	"	"	"	

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Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 30' (6G31012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*88.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**49.1**	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**49.1**	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.6 %*	*70-130*		"	"	"	"	
BH 4 40' (6G31012-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	**39.1**	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**39.1**	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.0 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 10' (6G31012-01) Soil									
Chloride	**6.06**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**299**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**15.9**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 20' (6G31012-02) Soil									
Chloride	**21.0**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**511**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**2.1**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 30' (6G31012-03) Soil									
Chloride	**6.86**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**353**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**1.1**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 40' (6G31012-04) Soil									
Chloride	**J [1.82]**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	J
Specific Conductance (EC)	**220**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**18.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	258		"	250		103	80-120			
Total Hydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EH60402 - EPA 5030C (GC)										
Blank (EH60402-BLK1)				Prepared & Analyzed: 08/04/06						
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	*34.6*		*ug/kg*	*40.0*		*86.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.8*		*"*	*40.0*		*92.0*	*80-120*			
[illegible](EH60402-BS1)				Prepared & Analyzed: 08/04/06						
Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.17	0.0250	"	1.25		93.6	80-120			
Ethylbenzene	1.15	0.0250	"	1.25		92.0	80-120			
Xylene (p/m)	2.57	0.0250	"	2.50		103	80-120			
Xylene (o)	1.28	0.0250	"	1.25		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.3*		*ug/kg*	*40.0*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60402 - EPA 5030C (GC)										
Calibration Check (EH60402-CCV1)				Prepared: 08/04/06 Analyzed: 08/06/06						
Benzene	50.6		ug/kg	50.0		101	80-120			
Toluene	49.6		"	50.0		99.2	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	51.5		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		"	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		"	*40.0*		*98.0*	*80-120*			
Matrix Spike (EH60402-MS1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.20	0.0250	mg/kg dry	1.28	ND	93.8	80-120			
Toluene	1.21	0.0250	"	1.28	ND	94.5	80-120			
Ethylbenzene	1.24	0.0250	"	1.28	ND	96.9	80-120			
Xylene (p/m)	2.67	0.0250	"	2.56	ND	104	80-120			
Xylene (o)	1.30	0.0250	"	1.28	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.2*		*ug/kg*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.3*		"	*40.0*		*90.8*	*80-120*			
Matrix Spike Dup (EH60402-MSD1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.23	0.0250	mg/kg dry	1.28	ND	96.1	80-120	2.42	20	
Toluene	1.25	0.0250	"	1.28	ND	97.7	80-120	3.33	20	
Ethylbenzene	1.25	0.0250	"	1.28	ND	97.7	80-120	0.822	20	
Xylene (p/m)	2.90	0.0250	"	2.56	ND	113	80-120	8.29	20	
Xylene (o)	1.38	0.0250	"	1.28	ND	108	80-120	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	*40.7*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		"	*40.0*		*98.0*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		**Source: 6G31003-01**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		**Source: 6G31010-04**		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60204 - Water Extraction										
Blank (EH60204-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60204-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.70	0.500	mg/kg	10.0		97.0	80-120			
Calibration Check (EH60204-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.83		mg/L	10.0		98.3	80-120			
Duplicate (EH60204-DUP1)		**Source: 6G31011-02**		Prepared & Analyzed: 08/02/06						
Chloride	47.1	5.00	mg/kg		48.0			1.89	20	
Duplicate (EH60204-DUP2)		**Source: 6G31013-02**		Prepared & Analyzed: 08/02/06						
Chloride	173	5.00	mg/kg		176			1.72	20	
Matrix Spike (EH60204-MS1)		**Source: 6G31011-02**		Prepared & Analyzed: 08/02/06						
Chloride	152	5.00	mg/kg	100	48.0	104	80-120			

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2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EH60204 - Water Extraction										
Matrix Spike (EH60204-MS2)		**Source: 6G31013-02**		Prepared & Analyzed: 08/02/06						
Chloride	285	5.00	mg/kg	100	176	109	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	20	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-07-06

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

07/31/06

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP/TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	SAR	E.C	pH			RUSH TAT (Pre-Schedule)	Standard TAT
01	BH 4 10'	07/28/06		1	X									X				X					X	X		X					
02	BH 4 20'	07/28/06		1	X									X				X					X	X		X					
03	BH 4 30'	07/28/06		1	X									X				X					X	X		X					
04	BH 4 40'	07/28/06		1	X									X				X					X	X		X					

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 3.0
Laboratory Comments: 4oz glass

Relinquished by	Date	Time	Received by	Date	Time
M. Griffin	7/31/2006	2:15			
Relinquished by	Date	Time	Received by ELOT	Date	Time
			Carri Keese	7/31/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6G31013

Report Date: 08/07/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 4 65'	6G31013-01	Soil	2006-07-29 00:00	2006-07-31 14:15
BH 4 75'	6G31013-02	Soil	2006-07-29 00:00	2006-07-31 14:15
BH 4 85'	6G31013-03	Soil	2006-07-29 00:00	2006-07-31 14:15
BH 4 95'	6G31013-04	Soil	2006-07-29 00:00	2006-07-31 14:15

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 65' (6G31013-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*89.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.2 %*	*70-130*		"	"	"	"	
BH 4 75' (6G31013-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.0 %*	*70-130*		"	"	"	"	

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Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 85' (6G31013-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*86.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*76.4 %*	*70-130*		"	"	"	"	
BH 4 95' (6G31013-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH60402	08/04/06	08/04/06	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		*88.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	25.0	mg/kg dry	1	EG63122	07/31/06	08/01/06	TX 1005	
Carbon Ranges C12-C28	ND	25.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	25.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.2 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 65' (6G31013-01) Soil									
Chloride	**91.2**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**832**	20.0	umhos/cm	4	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**11.3**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 75' (6G31013-02) Soil									
Chloride	**176**	5.00	mg/kg	10	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1060**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**9.4**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 85' (6G31013-03) Soil									
Chloride	**189**	10.0	mg/kg	20	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1180**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**10.4**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	
BH 4 95' (6G31013-04) Soil									
Chloride	**184**	10.0	mg/kg	20	EH60204	08/02/06	08/02/06	EPA 300.0	
Specific Conductance (EC)	**1120**	10.0	umhos/cm	2	EH60318	08/03/06	08/03/06	EPA 9050A	
% Moisture	**13.2**	0.1	%	1	EH60103	07/31/06	08/01/06	% calculation	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63122 - Solvent Extraction (GC)										
Blank (EG63122-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	ND	25.0	mg/kg wet							
Carbon Ranges C12-C28	ND	25.0	"							
Carbon Ranges C28-C35	ND	25.0	"							
Total Hydrocarbon nC6-nC35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*49.0*		*mg/kg*	*50.0*		*98.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
LCS (EG63122-BS1)				Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	500	25.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	564	25.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.1*		*"*	*50.0*		*80.2*	*70-130*			
Calibration Check (EG63122-CCV1)				Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
[illegible]n Ranges C12-C28	258		"	250		103	80-120			
T[illegible]ydrocarbon nC6-nC35	474		"	500		94.8	80-120			
Surrogate: 1-Chlorooctane	*59.9*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EG63122-MS1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/02/06						
Carbon Ranges C6-C12	566	25.0	mg/kg dry	506	ND	112	75-125			
Carbon Ranges C12-C28	559	25.0	"	506	49.1	101	75-125			
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125			
Surrogate: 1-Chlorooctane	*51.3*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.9*		*"*	*50.0*		*79.8*	*70-130*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EG63122 - Solvent Extraction (GC)										
Matrix Spike Dup (EG63122-MSD1)	**Source: 6G31012-03**			Prepared: 07/31/06 Analyzed: 08/01/06						
Carbon Ranges C6-C12	551	25.0	mg/kg dry	506	ND	109	75-125	2.69	20	
Carbon Ranges C12-C28	567	25.0	"	506	49.1	102	75-125	1.42	20	
Carbon Ranges C28-C35	ND	25.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1120	25.0	"	1010	49.1	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*62.0*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
Batch EH60402 - EPA 5030C (GC)										
Blank (EH60402-BLK1)				Prepared & Analyzed: 08/04/06						
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	*34.6*		*ug/kg*	*40.0*		*86.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.8*		*"*	*40.0*		*92.0*	*80-120*			
[illegible]EH60402-BS1)				Prepared & Analyzed: 08/04/06						
Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.17	0.0250	"	1.25		93.6	80-120			
Ethylbenzene	1.15	0.0250	"	1.25		92.0	80-120			
Xylene (p/m)	2.57	0.0250	"	2.50		103	80-120			
Xylene (o)	1.28	0.0250	"	1.25		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.3*		*ug/kg*	*40.0*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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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 EH60402 - EPA 5030C (GC)										
Calibration Check (EH60402-CCV1)				Prepared: 08/04/06 Analyzed: 08/06/06						
Benzene	50.6		ug/kg	50.0		101	80-120			
Toluene	49.6		"	50.0		99.2	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	51.5		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		"	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		"	*40.0*		*98.0*	*80-120*			
Matrix Spike (EH60402-MS1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.20	0.0250	mg/kg dry	1.28	ND	93.8	80-120			
Toluene	1.21	0.0250	"	1.28	ND	94.5	80-120			
Ethylbenzene	1.24	0.0250	"	1.28	ND	96.9	80-120			
Xylene (p/m)	2.67	0.0250	"	2.56	ND	104	80-120			
Xylene (o)	1.30	0.0250	"	1.28	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.2*		*ug/kg*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.3*		"	*40.0*		*90.8*	*80-120*			
Matrix Spike Dup (EH60402-MSD1)		**Source: 6G31011-06**		Prepared: 08/04/06 Analyzed: 08/07/06						
Benzene	1.23	0.0250	mg/kg dry	1.28	ND	96.1	80-120	2.42	20	
Toluene	1.25	0.0250	"	1.28	ND	97.7	80-120	3.33	20	
Ethylbenzene	1.25	0.0250	"	1.28	ND	97.7	80-120	0.822	20	
Xylene (p/m)	2.90	0.0250	"	2.56	ND	113	80-120	8.29	20	
Xylene (o)	1.38	0.0250	"	1.28	ND	108	80-120	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	*40.7*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		"	*40.0*		*98.0*	*80-120*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

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 EH60103 - General Preparation (Prep)										
Blank (EH60103-BLK1)				Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	100		%							
Duplicate (EH60103-DUP1)		Source: 6G31003-01		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	95.1		%		94.7			0.421	20	
Duplicate (EH60103-DUP2)		Source: 6G31010-04		Prepared: 07/31/06 Analyzed: 08/01/06						
% Solids	92.4		%		93.4			1.08	20	
Batch EH60204 - Water Extraction										
Blank (EH60204-BLK1)				Prepared & Analyzed: 08/02/06						
Chloride	ND	0.500	mg/kg							
LCS (EH60204-BS1)				Prepared & Analyzed: 08/02/06						
Chloride	9.70	0.500	mg/kg	10.0		97.0	80-120			
Calibration Check (EH60204-CCV1)				Prepared & Analyzed: 08/02/06						
Chloride	9.83		mg/L	10.0		98.3	80-120			
Duplicate (EH60204-DUP1)		Source: 6G31011-02		Prepared & Analyzed: 08/02/06						
Chloride	47.1	5.00	mg/kg		48.0			1.89	20	
Duplicate (EH60204-DUP2)		Source: 6G31013-02		Prepared & Analyzed: 08/02/06						
Chloride	173	5.00	mg/kg		176			1.72	20	
Matrix Spike (EH60204-MS1)		Source: 6G31011-02		Prepared & Analyzed: 08/02/06						
Chloride	152	5.00	mg/kg	100	48.0	104	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 EH60204 - Water Extraction										
Matrix Spike (EH60204-MS2)		**Source: 6G31013-02**		Prepared & Analyzed: 08/02/06						
Chloride	285	5.00	mg/kg	100	176	109	80-120			
Batch EH60318 - Water Extraction										
Calibration Check (EH60318-CCV1)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1420		umhos/cm	1410		101	80-120			
Calibration Check (EH60318-CCV2)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1380		umhos/cm	1410		97.9	80-120			
Calibration Check (EH60318-CCV3)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1400		umhos/cm	1410		99.3	80-120			
Calibration Check (EH60318-CCV4)				Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1410		umhos/cm	1410		100	80-120			
Duplicate (EH60318-DUP1)		**Source: 6G28007-01**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	1520	10.0	umhos/cm		1520			0.00	20	
Duplicate (EH60318-DUP2)		**Source: 6G31008-02**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	450	10.0	umhos/cm		442			1.79	20	
Duplicate (EH60318-DUP3)		**Source: 6G31010-03**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	712	10.0	umhos/cm		702			1.41	20	
Duplicate (EH60318-DUP4)		**Source: 6G31011-05**		Prepared & Analyzed: 08/03/06						
Specific Conductance (EC)	988	20.0	umhos/cm		1030			4.16	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: 8-07-08

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, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050 Fax No: 281.394.2051
Sampler Signature:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:

WO#3103

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS / CL / SAR / EC	TCLP: TPH 418.1	TCLP: TPH TX 1005/1006	TCLP: TPH 8015M (GRO/DRO	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030	TOTAL: Chlorides	TOTAL: SAR	TOTAL: E.C.	TOTAL: pH	RUSH TAT (Pre-Schedule)	Standard TAT
01	BH 4 65'	07/29/06		1	X									X				X					X	X		X			
02	BH 4 75'	07/29/06		1	X									X				X					X	X		X			
03	BH 4 85'	07/29/06		1	X									X				X					X	X		X			
04	BH 4 95'	07/29/06		1	X									X				X					X	X		X			

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 3.0
Laboratory Comments: 4oz glass

Relinquished by:	Date	Time	Received by:	Date	Time
M. Griffin M. Griffin	7/31/2006	2:15			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Carin Keese	7/31/06	2:15

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Avalon Hills

Project Number: None Given

Location: None Given

Lab Order Number: 6H02003

Report Date: 08/08/06

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 1	6H02003-01	Water	2006-08-01 15:22	2006-08-02 10:10
BH 2	6H02003-02	Water	2006-08-01 15:15	2006-08-02 10:10
BH 4	6H02003-03	Water	2006-08-01 15:10	2006-08-02 10:10

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6H02003-01) Water									
Pyridine	ND	5.30	ug/l	1.06	EH60817	08/04/06	08/05/06	EPA 8270C	
N-Nitrosodimethylamine	ND	5.30	"	"	"	"	"	"	
Aniline	ND	5.30	"	"	"	"	"	"	
Phenol	ND	5.30	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.30	"	"	"	"	"	"	
2-Chlorophenol	ND	5.30	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.30	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.30	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.30	"	"	"	"	"	"	
Benzyl alcohol	ND	5.30	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.30	"	"	"	"	"	"	
2-Methylphenol	ND	5.30	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.30	"	"	"	"	"	"	
4-Methylphenol	ND	5.30	"	"	"	"	"	"	
Hexachloroethane	ND	5.30	"	"	"	"	"	"	
Nitrobenzene	ND	5.30	"	"	"	"	"	"	
Isophorone	ND	5.30	"	"	"	"	"	"	
2-Nitrophenol	ND	5.30	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.30	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.30	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.30	"	"	"	"	"	"	
Benzoic acid	ND	5.30	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.30	"	"	"	"	"	"	
Naphthalene	**15.0**	5.30	"	"	"	"	"	"	
4-Chloroaniline	ND	5.30	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.30	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.30	"	"	"	"	"	"	
2-Methylnaphthalene	**36.1**	5.30	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.30	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	5.30	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	5.30	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.30	"	"	"	"	"	"	
2-Nitroaniline	ND	5.30	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.30	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.30	"	"	"	"	"	"	
Acenaphthylene	ND	5.30	"	"	"	"	"	"	
3-Nitroaniline	ND	5.30	"	"	"	"	"	"	
Acenaphthene	ND	5.30	"	"	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Avalon Hills	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	
Katy TX, 77494	Project Manager: Mike Griffin	

Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6H02003-01) Water									
2,4-Dinitrophenol	ND	5.30	ug/l	1.06	EH60817	08/04/06	08/05/06	EPA 8270C	
4-Nitrophenol	ND	5.30	"	"	"	"	"	"	
Dibenzofuran	ND	5.30	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.30	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	5.30	"	"	"	"	"	"	
Diethyl phthalate	ND	5.30	"	"	"	"	"	"	
Fluorene	ND	5.30	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.30	"	"	"	"	"	"	
4-Nitroaniline	ND	5.30	"	"	"	"	"	"	
Azobenzene	ND	5.30	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.30	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.30	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.30	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.30	"	"	"	"	"	"	
Pentachlorophenol	ND	5.30	"	"	"	"	"	"	
Phenanthrene	**J [2.79]**	5.30	"	"	"	"	"	"	J
Anthracene	ND	5.30	"	"	"	"	"	"	
Carbazole	ND	5.30	"	"	"	"	"	"	
Di-n-butyl phthalate	**J [0.750]**	5.30	"	"	"	"	"	"	O-09, J
Fluoranthene	ND	5.30	"	"	"	"	"	"	
Benzidine	ND	21.2	"	"	"	"	"	"	
Pyrene	ND	5.30	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.30	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.30	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.30	"	"	"	"	"	"	
Chrysene	ND	5.30	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**163**	5.30	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.30	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.30	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.30	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.30	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.30	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	5.30	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.30	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*26.9 %*		*21-110*	"	"	"	"	
Surrogate: Phenol-d5		*20.8 %*		*10-110*	"	"	"	"	
Surrogate: Nitrobenzene-d5		*80.1 %*		*35-114*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*65.6 %*		*43-116*	"	"	"	"	

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 1 (6H02003-01) Water									
Surrogate: 2,4,6-Tribromophenol		*75.6 %*		*10-123*	*EH60817*	*08/04/06*	*08/05/06*	*EPA 8270C*	
Surrogate: p-Terphenyl-d14		*74.6 %*		*33-141*	"	"	"	"	
BH 2 (6H02003-02) Water									
Pyridine	ND	5.55	ug/l	1.11	EH60817	08/04/06	08/05/06	EPA 8270C	
N-Nitrosodimethylamine	ND	5.55	"	"	"	"	"	"	
Aniline	ND	5.55	"	"	"	"	"	"	
Phenol	ND	5.55	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.55	"	"	"	"	"	"	
2-Chlorophenol	ND	5.55	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.55	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.55	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.55	"	"	"	"	"	"	
Benzyl alcohol	ND	5.55	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.55	"	"	"	"	"	"	
2-Methylphenol	ND	5.55	"	"	"	"	"	"	
[illegible]itrosodi-n-propylamine	ND	5.55	"	"	"	"	"	"	
[illegible]Methylphenol	ND	5.55	"	"	"	"	"	"	
Hexachloroethane	ND	5.55	"	"	"	"	"	"	
Nitrobenzene	ND	5.55	"	"	"	"	"	"	
Isophorone	ND	5.55	"	"	"	"	"	"	
2-Nitrophenol	ND	5.55	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.55	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.55	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.55	"	"	"	"	"	"	
Benzoic acid	ND	5.55	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.55	"	"	"	"	"	"	
Naphthalene	ND	5.55	"	"	"	"	"	"	
4-Chloroaniline	ND	5.55	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.55	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.55	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.55	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.55	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	5.55	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	5.55	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.55	"	"	"	"	"	"	
2-Nitroaniline	ND	5.55	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.55	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 (6H02003-02) Water									
2,6-Dinitrotoluene	ND	5.55	ug/l	1.11	EH60817	08/04/06	08/05/06	EPA 8270C	
Acenaphthylene	ND	5.55	"	"	"	"	"	"	
3-Nitroaniline	ND	5.55	"	"	"	"	"	"	
Acenaphthene	ND	5.55	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	5.55	"	"	"	"	"	"	
4-Nitrophenol	ND	5.55	"	"	"	"	"	"	
Dibenzofuran	ND	5.55	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.55	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	5.55	"	"	"	"	"	"	
Diethyl phthalate	ND	5.55	"	"	"	"	"	"	
Fluorene	ND	5.55	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.55	"	"	"	"	"	"	
4-Nitroaniline	ND	5.55	"	"	"	"	"	"	
Azobenzene	ND	5.55	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.55	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.55	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.55	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.55	"	"	"	"	"	"	
Pentachlorophenol	ND	5.55	"	"	"	"	"	"	
Phenanthrene	ND	5.55	"	"	"	"	"	"	
Anthracene	ND	5.55	"	"	"	"	"	"	
Carbazole	ND	5.55	"	"	"	"	"	"	
Di-n-butyl phthalate	**ND**	5.55	"	"	"	"	"	"	
Fluoranthene	ND	5.55	"	"	"	"	"	"	
Benzidine	ND	22.2	"	"	"	"	"	"	
Pyrene	ND	5.55	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.55	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.55	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.55	"	"	"	"	"	"	
Chrysene	ND	5.55	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**J [2.86]**	5.55	"	"	"	"	"	"	O-09, J
Di-n-octyl phthalate	ND	5.55	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.55	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.55	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.55	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.55	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	5.55	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.55	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 2 (6H02003-02) Water									
Surrogate: 2-Fluorophenol		*17.1 %*	*21-110*		*EH60817*	*08/04/06*	*08/05/06*	*EPA 8270C*	*S-08*
Surrogate: Phenol-d5		*12.8 %*	*10-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*33.6 %*	*35-114*		"	"	"	"	*S-08*
Surrogate: 2-Fluorobiphenyl		*46.8 %*	*43-116*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*53.6 %*	*10-123*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*63.5 %*	*33-141*		"	"	"	"	
BH 4 (6H02003-03) Water									
Pyridine	ND	5.25	ug/l	1.05	EH60817	08/04/06	08/05/06	EPA 8270C	
N-Nitrosodimethylamine	ND	5.25	"	"	"	"	"	"	
Aniline	ND	5.25	"	"	"	"	"	"	
Phenol	ND	5.25	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.25	"	"	"	"	"	"	
2-Chlorophenol	ND	5.25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.25	"	"	"	"	"	"	
[illegible]-Dichlorobenzene	ND	5.25	"	"	"	"	"	"	
[illegible]enzyl alcohol	ND	5.25	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.25	"	"	"	"	"	"	
2-Methylphenol	ND	5.25	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.25	"	"	"	"	"	"	
4-Methylphenol	ND	5.25	"	"	"	"	"	"	
Hexachloroethane	ND	5.25	"	"	"	"	"	"	
Nitrobenzene	ND	5.25	"	"	"	"	"	"	
Isophorone	ND	5.25	"	"	"	"	"	"	
2-Nitrophenol	ND	5.25	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.25	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.25	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.25	"	"	"	"	"	"	
Benzoic acid	ND	5.25	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.25	"	"	"	"	"	"	
Naphthalene	ND	5.25	"	"	"	"	"	"	
4-Chloroaniline	ND	5.25	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.25	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.25	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.25	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5.25	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	5.25	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 (6H02003-03) Water									
2,4,5-Trichlorophenol	ND	5.25	ug/l	1.05	EH60817	08/04/06	08/05/06	EPA 8270C	
2-Chloronaphthalene	ND	5.25	"	"	"	"	"	"	
2-Nitroaniline	ND	5.25	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.25	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.25	"	"	"	"	"	"	
Acenaphthylene	ND	5.25	"	"	"	"	"	"	
3-Nitroaniline	ND	5.25	"	"	"	"	"	"	
Acenaphthene	ND	5.25	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	5.25	"	"	"	"	"	"	
4-Nitrophenol	ND	5.25	"	"	"	"	"	"	
Dibenzofuran	ND	5.25	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.25	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	5.25	"	"	"	"	"	"	
Diethyl phthalate	ND	5.25	"	"	"	"	"	"	
Fluorene	ND	5.25	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.25	"	"	"	"	"	"	
[illegible]itroaniline	ND	5.25	"	"	"	"	"	"	
[illegible]obenzene	ND	5.25	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.25	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.25	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.25	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.25	"	"	"	"	"	"	
Pentachlorophenol	ND	5.25	"	"	"	"	"	"	
Phenanthrene	ND	5.25	"	"	"	"	"	"	
Anthracene	ND	5.25	"	"	"	"	"	"	
Carbazole	ND	5.25	"	"	"	"	"	"	
Di-n-butyl phthalate	**J [2.12]**	5.25	"	"	"	"	"	"	O-09, J
Fluoranthene	ND	5.25	"	"	"	"	"	"	
Benzidine	ND	21.0	"	"	"	"	"	"	
Pyrene	ND	5.25	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.25	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.25	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.25	"	"	"	"	"	"	
Chrysene	ND	5.25	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**J [4.12]**	5.25	"	"	"	"	"	"	O-09, J
Di-n-octyl phthalate	ND	5.25	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.25	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.25	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH 4 (6H02003-03) Water									
Benzo (k) fluoranthene	ND	5.25	ug/l	1.05	EH60817	08/04/06	08/05/06	EPA 8270C	
Benzo (a) pyrene	ND	5.25	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	5.25	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.25	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*19.0 %*	*21-110*		"	"	"	"	*S-08*
Surrogate: Phenol-d5		*15.8 %*	*10-110*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*40.8 %*	*35-114*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*54.1 %*	*43-116*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*58.6 %*	*10-123*		"	"	"	"	
Surrogate: p-Terphenyl-d14		*66.6 %*	*33-141*		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
Blank (EH60817-BLK1)				Prepared: 08/04/06 Analyzed: 08/05/06						
Pyridine	ND	5.00	ug/l							
N-Nitrosodimethylamine	ND	5.00	"							
Aniline	ND	5.00	"							
Phenol	ND	5.00	"							
Bis(2-chloroethyl)ether	ND	5.00	"							
2-Chlorophenol	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
Benzyl alcohol	ND	5.00	"							
Bis(2-chloroisopropyl)ether	ND	5.00	"							
2-Methylphenol	ND	5.00	"							
N-Nitrosodi-n-propylamine	ND	5.00	"							
4-Methylphenol	ND	5.00	"							
Hexachloroethane	ND	5.00	"							
Nitrobenzene	ND	5.00	"							
Isophorone	ND	5.00	"							
[illegible]trophenol	ND	5.00	"							
[illegible]-Dimethylphenol	ND	5.00	"							
Bis(2-chloroethoxy)methane	ND	5.00	"							
2,4-Dichlorophenol	ND	5.00	"							
Benzoic acid	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
Naphthalene	ND	5.00	"							
4-Chloroaniline	ND	5.00	"							
Hexachlorobutadiene	ND	5.00	"							
4-Chloro-3-methylphenol	ND	5.00	"							
2-Methylnaphthalene	ND	5.00	"							
Hexachlorocyclopentadiene	ND	5.00	"							
2,4,6-Trichlorophenol	ND	5.00	"							
2,4,5-Trichlorophenol	ND	5.00	"							
2-Chloronaphthalene	ND	5.00	"							
2-Nitroaniline	ND	5.00	"							
Dimethyl phthalate	ND	5.00	"							
2,6-Dinitrotoluene	ND	5.00	"							
Acenaphthylene	ND	5.00	"							
3-Nitroaniline	ND	5.00	"							
Acenaphthene	ND	5.00	"							
2,4-Dinitrophenol	ND	5.00	"							
4-Nitrophenol	ND	5.00	"							
Dibenzofuran	ND	5.00	"							
2,4-Dinitrotoluene	ND	5.00	"							

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
Blank (EH60817-BLK1)				Prepared: 08/04/06 Analyzed: 08/05/06						
2,3,4,6-Tetrachlorophenol	ND	5.00	ug/l							
Diethyl phthalate	ND	5.00	"							
Fluorene	ND	5.00	"							
4-Chlorophenyl phenyl ether	ND	5.00	"							
4-Nitroaniline	ND	5.00	"							
Azobenzene	ND	5.00	"							
4,6-Dinitro-2-methylphenol	ND	5.00	"							
N-Nitrosodiphenylamine	ND	5.00	"							
4-Bromophenyl phenyl ether	ND	5.00	"							
Hexachlorobenzene	ND	5.00	"							
Pentachlorophenol	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Anthracene	ND	5.00	"							
Carbazole	ND	5.00	"							
Di-n-butyl phthalate	1.32	5.00	"							O-09, J
Fluoranthene	ND	5.00	"							
Benzidine	ND	20.0	"							
[illegible]ene	ND	5.00	"							
[illegible]yl benzyl phthalate	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
3,3'-Dichlorobenzidine	ND	5.00	"							
Chrysene	ND	5.00	"							
Bis(2-ethylhexyl)phthalate	4.43	5.00	"							O-09, J
Di-n-octyl phthalate	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Dibenzo (a,h) anthracene	ND	5.00	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Surrogate: 2-Fluorophenol	*25.4*		"	*80.0*		*31.8*	*21-110*			
Surrogate: Phenol-d5	*18.4*		"	*80.0*		*23.0*	*10-110*			
Surrogate: Nitrobenzene-d5	*47.8*		"	*80.0*		*59.8*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*54.5*		"	*80.0*		*68.1*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*71.0*		"	*80.0*		*88.8*	*10-123*			
Surrogate: p-Terphenyl-d14	*72.4*		"	*80.0*		*90.5*	*33-141*			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
LCS (EH60817-BS1)				Prepared: 08/04/06 Analyzed: 08/05/06						
N-Nitrosodimethylamine	26.6	5.00	ug/l	100		26.6	5-112			
Phenol	21.4	5.00	"	100		21.4	12-110			
Bis(2-chloroethyl)ether	49.4	5.00	"	100		49.4	12-158			
2-Chlorophenol	43.5	5.00	"	100		43.5	27-123			
1,3-Dichlorobenzene	40.5	5.00	"	100		40.5	0.36-127			
1,4-Dichlorobenzene	42.5	5.00	"	100		42.5	36-97			
1,2-Dichlorobenzene	46.8	5.00	"	100		46.8	32-129			
Bis(2-chloroisopropyl)ether	43.2	5.00	"	100		43.2	36-166			
2-Methylphenol	45.1	5.00	"	100		45.1	5-112			
N-Nitrosodi-n-propylamine	50.7	5.00	"	100		50.7	41-116			
4-Methylphenol	35.5	5.00	"	100		35.5	5-112			
Nitrobenzene	48.3	5.00	"	100		48.3	35-180			
Isophorone	50.4	5.00	"	100		50.4	21-196			
2-Nitrophenol	48.7	5.00	"	100		48.7	29-182			
2,4-Dimethylphenol	38.6	5.00	"	100		38.6	32-119			
Bis(2-chloroethoxy)methane	53.0	5.00	"	100		53.0	33-184			
2,4-Dichlorophenol	49.5	5.00	"	100		49.5	39-135			
[illegible]4-Trichlorobenzene	54.8	5.00	"	100		54.8	39-98			
[illegible]phthalene	52.0	5.00	"	100		52.0	21-133			
Hexachlorobutadiene	48.8	5.00	"	100		48.8	24-116			
4-Chloro-3-methylphenol	49.8	5.00	"	100		49.8	23-97			
2-Methylnaphthalene	57.3	5.00	"	100		57.3	21-133			
Hexachlorocyclopentadiene	17.3	5.00	"	100		17.3	0-116			
2,4,6-Trichlorophenol	59.7	5.00	"	100		59.7	37-144			
2,4,5-Trichlorophenol	66.4	5.00	"	100		66.4	37-144			
2-Nitroaniline	48.9	5.00	"	100		48.9	35-180			
Dimethyl phthalate	58.6	5.00	"	100		58.6	0.49-112			
2,6-Dinitrotoluene	57.4	5.00	"	100		57.4	50-158			
Acenaphthylene	57.0	5.00	"	100		57.0	33-145			
3-Nitroaniline	36.8	5.00	"	100		36.8	35-180			
Acenaphthene	60.0	5.00	"	100		60.0	46-118			
2,4-Dinitrophenol	34.2	5.00	"	100		34.2	1.19-191			
4-Nitrophenol	14.4	5.00	"	100		14.4	10-80			
Dibenzofuran	56.8	5.00	"	100		56.8	46-118			
2,4-Dinitrotoluene	58.6	5.00	"	100		58.6	24-96			
Diethyl phthalate	61.3	5.00	"	100		61.3	3.73-114			
Fluorene	61.6	5.00	"	100		61.6	59-121			
4-Chlorophenyl phenyl ether	65.8	5.00	"	100		65.8	25-158			
4-Nitroaniline	38.4	5.00	"	100		38.4	35-180			
4,6-Dinitro-2-methylphenol	58.3	5.00	"	100		58.3	1.45-181			
4-Bromophenyl phenyl ether	74.6	5.00	"	100		74.6	53-127			
Hexachlorobenzene	71.6	5.00	"	100		71.6	0.38-152			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
LCS (EH60817-BS1)				Prepared: 08/04/06 Analyzed: 08/05/06						
Pentachlorophenol	49.3	5.00	ug/l	100		49.3	9-103			
Phenanthrene	71.7	5.00	"	100		71.7	54-120			
Anthracene	66.8	5.00	"	100		66.8	27-133			
Carbazole	58.2	5.00	"	100		58.2	27-133			
Di-n-butyl phthalate	68.4	5.00	"	100		68.4	1-118			
Fluoranthene	66.8	5.00	"	100		66.8	26-137			
Pyrene	65.8	5.00	"	100		65.8	26-127			
Butyl benzyl phthalate	63.4	5.00	"	100		63.4	0.38-152			
Benzo (a) anthracene	49.4	5.00	"	100		49.4	33-143			
Chrysene	64.4	5.00	"	100		64.4	17-168			
Bis(2-ethylhexyl)phthalate	66.6	5.00	"	100		66.6	8-158			
Di-n-octyl phthalate	57.7	5.00	"	100		57.7	8-158			
Indeno (1,2,3-cd) pyrene	19.7	5.00	"	100		19.7	5-171			
Benzo (b) fluoranthene	75.0	5.00	"	100		75.0	24-159			
Benzo (k) fluoranthene	78.7	5.00	"	100		78.7	11-162			
Benzo (a) pyrene	60.6	5.00	"	100		60.6	17-163			
Dibenzo (a,h) anthracene	39.0	5.00	"	100		39.0	5-227			
Benzo (g,h,i) perylene	36.5	5.00	"	100		36.5	5-219			
Surrogate: 2-Fluorophenol	*22.0*		"	*80.0*		*27.5*	*21-110*			
Surrogate: Phenol-d5	*19.2*		"	*80.0*		*24.0*	*10-110*			
Surrogate: Nitrobenzene-d5	*38.6*		"	*80.0*		*48.2*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*48.5*		"	*80.0*		*60.6*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*56.4*		"	*80.0*		*70.5*	*10-123*			
Surrogate: p-Terphenyl-d14	*57.4*		"	*80.0*		*71.8*	*33-141*			
LCS Dup (EH60817-BSD1)				Prepared: 08/04/06 Analyzed: 08/05/06						
N-Nitrosodimethylamine	27.1	5.00	ug/l	100		27.1	5-112	1.86	22.6	
Phenol	21.6	5.00	"	100		21.6	12-110	0.930	42	
Bis(2-chloroethyl)ether	51.0	5.00	"	100		51.0	12-158	3.19	55	
2-Chlorophenol	43.6	5.00	"	100		43.6	27-123	0.230	40	
1,3-Dichlorobenzene	40.3	5.00	"	100		40.3	0.36-127	0.495	41.7	
1,4-Dichlorobenzene	42.2	5.00	"	100		42.2	36-97	0.708	28	
1,2-Dichlorobenzene	47.4	5.00	"	100		47.4	32-129	1.27	30.9	
Bis(2-chloroisopropyl)ether	44.3	5.00	"	100		44.3	36-166	2.51	46.3	
2-Methylphenol	45.8	5.00	"	100		45.8	5-112	1.54	22.6	
N-Nitrosodi-n-propylamine	53.0	5.00	"	100		53.0	41-116	4.44	38	
4-Methylphenol	36.7	5.00	"	100		36.7	5-112	3.32	22.6	
Nitrobenzene	48.9	5.00	"	100		48.9	35-180	1.23	39.3	
Isophorone	51.0	5.00	"	100		51.0	21-196	1.18	63.3	
2-Nitrophenol	49.5	5.00	"	100		49.5	29-182	1.63	35.2	
2,4-Dimethylphenol	39.0	5.00	"	100		39.0	32-119	1.03	26.1	
Bis(2-chloroethoxy)methane	54.0	5.00	"	100		54.0	33-184	1.87	34.5	
2,4-Dichlorophenol	50.1	5.00	"	100		50.1	39-135	1.20	26.4	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
LCS Dup (EH60817-BSD1)				Prepared: 08/04/06 Analyzed: 08/05/06						
1,2,4-Trichlorobenzene	54.9	5.00	ug/l	100		54.9	39-98	0.182	28	
Naphthalene	51.9	5.00	"	100		51.9	21-133	0.192	30.1	
Hexachlorobutadiene	48.1	5.00	"	100		48.1	24-116	1.44	26.3	
4-Chloro-3-methylphenol	51.8	5.00	"	100		51.8	23-97	3.94	42	
2-Methylnaphthalene	57.6	5.00	"	100		57.6	21-133	0.522	30.1	
Hexachlorocyclopentadiene	ND	5.00	"	100			0-116		26.3	
2,4,6-Trichlorophenol	59.7	5.00	"	100		59.7	37-144	0.00	31.7	
2,4,5-Trichlorophenol	66.7	5.00	"	100		66.7	37-144	0.451	31.7	
2-Nitroaniline	50.0	5.00	"	100		50.0	35-180	2.22	39.3	
Dimethyl phthalate	59.4	5.00	"	100		59.4	0.49-112	1.36	23.2	
2,6-Dinitrotoluene	58.7	5.00	"	100		58.7	50-158	2.24	29.6	
Acenaphthylene	57.6	5.00	"	100		57.6	33-145	1.05	40.2	
3-Nitroaniline	37.3	5.00	"	100		37.3	35-180	1.35	39.3	
Acenaphthene	60.0	5.00	"	100		60.0	46-118	0.00	31	
2,4-Dinitrophenol	35.6	5.00	"	100		35.6	1.19-191	4.01	49.8	
4-Nitrophenol	12.7	5.00	"	100		12.7	10-80	12.5	50	
Dibenzofuran	57.0	5.00	"	100		57.0	46-118	0.351	31	
[illegible]Dinitrotoluene	59.4	5.00	"	100		59.4	24-96	1.36	38	
[illegible]thyl phthalate	62.3	5.00	"	100		62.3	3.73-114	1.62	26.5	
Fluorene	62.6	5.00	"	100		62.6	59-121	1.61	20.7	
4-Chlorophenyl phenyl ether	66.6	5.00	"	100		66.6	25-158	1.21	33.4	
4-Nitroaniline	37.7	5.00	"	100		37.7	35-180	1.84	39.3	
4,6-Dinitro-2-methylphenol	62.5	5.00	"	100		62.5	1.45-181	6.95	93.2	
4-Bromophenyl phenyl ether	74.5	5.00	"	100		74.5	53-127	0.134	23	
Hexachlorobenzene	71.4	5.00	"	100		71.4	0.38-152	0.280	24.9	
Pentachlorophenol	51.2	5.00	"	100		51.2	9-103	3.78	50	
Phenanthrene	70.9	5.00	"	100		70.9	54-120	1.12	20.6	
Anthracene	66.5	5.00	"	100		66.5	27-133	0.450	32	
Carbazole	58.0	5.00	"	100		58.0	27-133	0.344	32	
Di-n-butyl phthalate	68.4	5.00	"	100		68.4	1-118	0.00	16.7	
Fluoranthene	67.3	5.00	"	100		67.3	26-137	0.746	32.8	
Pyrene	65.4	5.00	"	100		65.4	26-127	0.610	31	
Butyl benzyl phthalate	63.0	5.00	"	100		63.0	0.38-152	0.633	23.4	
Benzo (a) anthracene	49.2	5.00	"	100		49.2	33-143	0.406	27.6	
Chrysene	66.0	5.00	"	100		66.0	17-168	2.45	48.3	
Bis(2-ethylhexyl)phthalate	66.7	5.00	"	100		66.7	8-158	0.150	41.1	
Di-n-octyl phthalate	59.2	5.00	"	100		59.2	8-158	2.57	41.1	
Indeno (1,2,3-cd) pyrene	19.8	5.00	"	100		19.8	5-171	0.506	44.6	
Benzo (b) fluoranthene	76.6	5.00	"	100		76.6	24-159	2.11	38.8	
Benzo (k) fluoranthene	74.7	5.00	"	100		74.7	11-162	5.22	32.3	
Benzo (a) pyrene	60.5	5.00	"	100		60.5	17-163	0.165	39	
Dibenzo (a,h) anthracene	36.7	5.00	"	100		36.7	5-227	6.08	70	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
LCS Dup (EH60817-BSD1)				Prepared: 08/04/06 Analyzed: 08/05/06						
Benzo (g,h,i) perylene	33.9	5.00	ug/l	100		33.9	5-219	7.39	58.9	
Surrogate: 2-Fluorophenol	*21.8*		"	*80.0*		*27.2*	*21-110*			
Surrogate: Phenol-d5	*17.5*		"	*80.0*		*21.9*	*10-110*			
Surrogate: Nitrobenzene-d5	*38.6*		"	*80.0*		*48.2*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*48.6*		"	*80.0*		*60.8*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*56.7*		"	*80.0*		*70.9*	*10-123*			
Surrogate: p-Terphenyl-d14	*57.5*		"	*80.0*		*71.9*	*33-141*			
Calibration Check (EH60817-CCV1)				Prepared & Analyzed: 08/04/06						
Phenol	35.1		ug/l	50.0		70.2	70-130			
2-Nitrophenol	41.1		"	50.0		82.2	70-130			
2,4-Dichlorophenol	41.0		"	50.0		82.0	70-130			
4-Chloro-3-methylphenol	40.7		"	50.0		81.4	70-130			
2,4,6-Trichlorophenol	45.4		"	50.0		90.8	70-130			
Pentachlorophenol	44.5		"	50.0		89.0	70-130			
Surrogate: 2-Fluorophenol	*70.7*		"	*80.0*		*88.4*	*21-110*			
Surrogate: Phenol-d5	*71.7*		"	*80.0*		*89.6*	*10-110*			
Surrogate: Nitrobenzene-d5	*72.5*		"	*80.0*		*90.6*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*75.9*		"	*80.0*		*94.9*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*93.3*		"	*80.0*		*117*	*10-123*			
Surrogate: p-Terphenyl-d14	*88.7*		"	*80.0*		*111*	*33-141*			
Calibration Check (EH60817-CCV2)				Prepared & Analyzed: 08/04/06						
1,4-Dichlorobenzene	45.1		ug/l	50.0		90.2	70-130			
Hexachlorobutadiene	53.0		"	50.0		106	70-130			
Acenaphthene	45.1		"	50.0		90.2	70-130			
N-Nitrosodiphenylamine	52.5		"	50.0		105	70-130			
Fluoranthene	50.0		"	50.0		100	70-130			
Di-n-octyl phthalate	43.4		"	50.0		86.8	70-130			
Benzo (a) pyrene	46.1		"	50.0		92.2	70-130			
Surrogate: 2-Fluorophenol	*70.2*		"	*80.0*		*87.8*	*21-110*			
Surrogate: Phenol-d5	*70.1*		"	*80.0*		*87.6*	*10-110*			
Surrogate: Nitrobenzene-d5	*66.9*		"	*80.0*		*83.6*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*80.2*		"	*80.0*		*100*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*68.0*		"	*80.0*		*85.0*	*10-123*			
Surrogate: p-Terphenyl-d14	*81.8*		"	*80.0*		*102*	*33-141*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

Fax: (281) 394-2051

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
Matrix Spike (EH60817-MS1)	**Source: 6H02003-01**			Prepared: 08/04/06 Analyzed: 08/05/06						
N-Nitrosodimethylamine	19.6	5.30	ug/l	100	ND	19.6	5-112			
Phenol	15.0	5.30	"	100	ND	15.0	12-110			
Bis(2-chloroethyl)ether	37.6	5.30	"	100	ND	37.6	12-158			
2-Chlorophenol	27.8	5.30	"	100	ND	27.8	27-123			
1,3-Dichlorobenzene	36.9	5.30	"	100	ND	36.9	0.36-127			
1,4-Dichlorobenzene	39.7	5.30	"	100	ND	39.7	36-97			
1,2-Dichlorobenzene	43.7	5.30	"	100	ND	43.7	32-129			
Bis(2-chloroisopropyl)ether	32.6	5.30	"	100	ND	32.6	36-166			QM-05
2-Methylphenol	41.8	5.30	"	100	ND	41.8	5-112			
N-Nitrosodi-n-propylamine	38.8	5.30	"	100	ND	38.8	41-116			QM-05
4-Methylphenol	27.9	5.30	"	100	ND	27.9	5-112			
Nitrobenzene	71.6	5.30	"	100	ND	71.6	35-180			
Isophorone	40.8	5.30	"	100	ND	40.8	21-196			
2-Nitrophenol	49.6	5.30	"	100	ND	49.6	29-182			
2,4-Dimethylphenol	40.9	5.30	"	100	ND	40.9	32-119			
Bis(2-chloroethoxy)methane	49.0	5.30	"	100	ND	49.0	33-184			
2,4-Dichlorophenol	104	5.30	"	100	ND	104	39-135			
[illegible]4-Trichlorobenzene	48.9	5.30	"	100	ND	48.9	39-98			
[illegible]hthalene	67.2	5.30	"	100	15.0	52.2	21-133			
Hexachlorobutadiene	75.1	5.30	"	100	ND	75.1	24-116			
4-Chloro-3-methylphenol	42.4	5.30	"	100	ND	42.4	23-97			
2-Methylnaphthalene	104	5.30	"	100	36.1	67.9	21-133			
Hexachlorocyclopentadiene	17.4	5.30	"	100	ND	17.4	0-116			
2,4,6-Trichlorophenol	45.6	5.30	"	100	ND	45.6	37-144			
2,4,5-Trichlorophenol	60.5	5.30	"	100	ND	60.5	37-144			
2-Nitroaniline	46.8	5.30	"	100	ND	46.8	35-180			
Dimethyl phthalate	48.2	5.30	"	100	ND	48.2	0.49-112			
2,6-Dinitrotoluene	51.3	5.30	"	100	ND	51.3	50-158			
Acenaphthylene	44.4	5.30	"	100	ND	44.4	33-145			
3-Nitroaniline	18.4	5.30	"	100	ND	18.4	35-180			QM-05
Acenaphthene	53.4	5.30	"	100	ND	53.4	46-118			
2,4-Dinitrophenol	30.2	5.30	"	100	ND	30.2	1.19-191			
4-Nitrophenol	92.9	5.30	"	100	ND	92.9	10-80			QM-05
Dibenzofuran	48.8	5.30	"	100	ND	48.8	46-118			
2,4-Dinitrotoluene	52.0	5.30	"	100	ND	52.0	24-96			
Diethyl phthalate	51.7	5.30	"	100	ND	51.7	3.73-114			
Fluorene	66.0	5.30	"	100	ND	66.0	59-121			
4-Chlorophenyl phenyl ether	60.9	5.30	"	100	ND	60.9	25-158			
4-Nitroaniline	17.1	5.30	"	100	ND	17.1	35-180			QM-05
4,6-Dinitro-2-methylphenol	50.2	5.30	"	100	ND	50.2	1.45-181			
4-Bromophenyl phenyl ether	71.1	5.30	"	100	ND	71.1	53-127			
Hexachlorobenzene	71.5	5.30	"	100	ND	71.5	0.38-152			

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH60817 - EPA 3510C										
Matrix Spike (EH60817-MS1)	**Source: 6H02003-01**			Prepared: 08/04/06		Analyzed: 08/05/06				
Pentachlorophenol	58.8	5.30	ug/l	100	ND	58.8	9-103			
Phenanthrene	74.0	5.30	"	100	2.79	71.2	54-120			
Anthracene	68.8	5.30	"	100	ND	68.8	27-133			
Carbazole	54.6	5.30	"	100	ND	54.6	27-133			
Di-n-butyl phthalate	63.4	5.30	"	100	0.750	62.6	1-118			
Fluoranthene	63.2	5.30	"	100	ND	63.2	26-137			
Pyrene	58.9	5.30	"	100	ND	58.9	26-127			
Butyl benzyl phthalate	40.7	5.30	"	100	ND	40.7	0.38-152			
Benzo (a) anthracene	44.9	5.30	"	100	ND	44.9	33-143			
Chrysene	61.0	5.30	"	100	ND	61.0	17-168			
Bis(2-ethylhexyl)phthalate	299	5.30	"	100	163	136	8-158			
Di-n-octyl phthalate	49.7	5.30	"	100	ND	49.7	8-158			
Indeno (1,2,3-cd) pyrene	17.5	5.30	"	100	ND	17.5	5-171			
Benzo (b) fluoranthene	63.4	5.30	"	100	ND	63.4	24-159			
Benzo (k) fluoranthene	73.6	5.30	"	100	ND	73.6	11-162			
Benzo (a) pyrene	56.0	5.30	"	100	ND	56.0	17-163			
Dibenzo (a,h) anthracene	30.0	5.30	"	100	ND	30.0	5-227			
Benzo (g,h,i) perylene	30.8	5.30	"	100	ND	30.8	5-219			
Surrogate: 2-Fluorophenol	*15.6*		"	*80.0*		*19.5*	*21-110*			*S-04*
Surrogate: Phenol-d5	*20.3*		"	*80.0*		*25.4*	*10-110*			
Surrogate: Nitrobenzene-d5	*73.3*		"	*80.0*		*91.6*	*35-114*			
Surrogate: 2-Fluorobiphenyl	*42.1*		"	*80.0*		*52.6*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*45.4*		"	*80.0*		*56.8*	*10-123*			
Surrogate: p-Terphenyl-d14	*50.9*		"	*80.0*		*63.6*	*33-141*			

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

Project: Avalon Hills
Project Number: None Given
Project Manager: Mike Griffin

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Notes and Definitions

S-08	Value outside Laboratory historical or method prescribed QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
O-09	This compound is a common laboratory contaminant. Compound also present in method blank.
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: 8-09-06

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Mike Griffin
Company Name: Whole Earth Env. / Devon
Company Address: 2103 Arbor Cove Katy TX
City/State/Zip:
Telephone No: Fax No:
Sampler Signature: e-mail:

Project Name: Avalon Hills
Project #:
Project Loc:
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 6H02003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	BH1			8/1/06	3:22	2	X								W								X	X					X
02	BH2				3:15	1	X								W								X	X					X
03	BH4				3:10	1	X								W								X	X					X

Special Instructions:

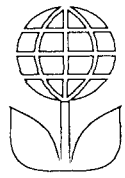
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date 8/2/06	Time 10:10	Received by ELOT:	Date 8/2/06	Time 10:10

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

11- glass

Temperature Upon Receipt: 2.0 °C



Protocol

This section contains a copy of PR-69, the proposed remediation protocol to be employed on the perched groundwater surrounding BH-1.

Remediation Protocol
Devon Energy Company
Avalon Hills 7 Fed. COM # 3

1.0 Purpose

This protocol provides an outline of the steps to be employed in the remediation and final closure of the Devon Energy Corporation (Devon) Avalon Hills 7 Fed COM # 3 well control related impact project in Eddy County, New Mexico.

2.0 Scope

This protocol is site specific for the remediation and closure of the above stated site.

3.0 Preliminary

Prior to beginning any field operations, Whole Earth Environmental will complete the following tasks:

Whole Earth will meet with Devon personnel to review this protocol.

After Devon's review, this protocol will be submitted to the New Mexico Oil Conservation Division (NMOCD) for review and approval. Any NMOCD requested revisions will be documented prior to the initiation of any field work.

4.0 Safety

Prior to beginning work on the site, Whole Earth will confirm the location and phone number of the nearest emergency medical treatment facility.

Anyone allowed on location must be informed of the tasks being performed along with any associated hazards. All workers and visitors must wear a hard hat, steel-toed boots, safety glasses, a sleeved shirt and long pants. Each vehicle must be equipped with two-way communication capabilities.

5.0 Fluid Removal

Utilizing a stainless steel Grunfos pump, fluid contained in MW-1 and the surrounding soil will be recovered in batches of approximately 500 gallons.

Each batch of recovered fluid will temporarily be stored in portable storage vessels for analytical testing and manifesting prior to disposal.

Each 500 gallon batch of fluid will be field tested in accordance with WEQP-76 until a chloride concentration of 1,000 ppm or less has been reached.

A confirmation sample from the final batch of recovered fluid will be collected in accordance with WEQP-76 and transported to a laboratory under Chain of Custody (COC) protocols for chloride and TDS (total dissolved solids) analysis.

Upon reaching a chloride concentration of 1,000 ppm or less, a fluid sample will be collected and analyzed for the presence of BTEX. Should the BTEX concentration exceed NMWQCC standards, inoculants consisting of Environoc 101 and water will be introduced into the monitoring well in sufficient volumes biodegrade the BTEX and achieve compliance with NMWQCC standards

After treatment is completed, a confirmation fluid sample will be collected in accordance with WEQP-76 and sent to a laboratory under COC protocols for chloride, TDS and BTEX analysis.

If a 1,000 ppm chloride concentration cannot be reached following implementation of these protocols, Devon and Whole Earth will contact the NMOCD to determine if an alternative approach is appropriate.

The temporarily stored fluid will be transported to a commercial disposal facility. A disposal manifest will be generated for each load of recovered fluid to be transported for disposal.

6.0 Documentation & Reporting

At the conclusion of the project, all monitoring wells associated with the site will be abandoned and Whole Earth will prepare a closure report to include the following information:

- A brief summary of the activities conducted at the site.
- The disposal manifests for each batch of recovered fluid.
- Laboratory analytical results for each batch of recovered fluid and the final confirmation sample collected after remedial activities have been completed.

New

PRELIMINARY WORKPLAN FOR THE DETERMINATION OF POTENTIAL THREAT TO GROUND WATER QUALITY DUE TO DEVON WELL CONTROL SITUATION

Purpose

On June 19, 2006, a "well control situation" took place at a Devon drilling rig north east of Carlsbad directly east of Lake Avalon and State Highway 206[1]. The "well control situation" involved gas escaping from the well. The purpose of this report is to assess hydrogeological information from libraries and the internet in order to draft a preliminary workplan to delineate the boundaries of any potential problem and to determine what if any contaminants may impair ground water quality at the site.

Site Description

No coordinates are yet available for the site except that the well is located at Avalon Hills 7 com #3 within section 7 of township T21S R27E, Eddy County. The elevation of the site is approximately 3200 feet above sea level. Figure 1 shows the approximate location of the site approximately 4 miles north of Carlsbad, New Mexico, and east of Lake Avalon.

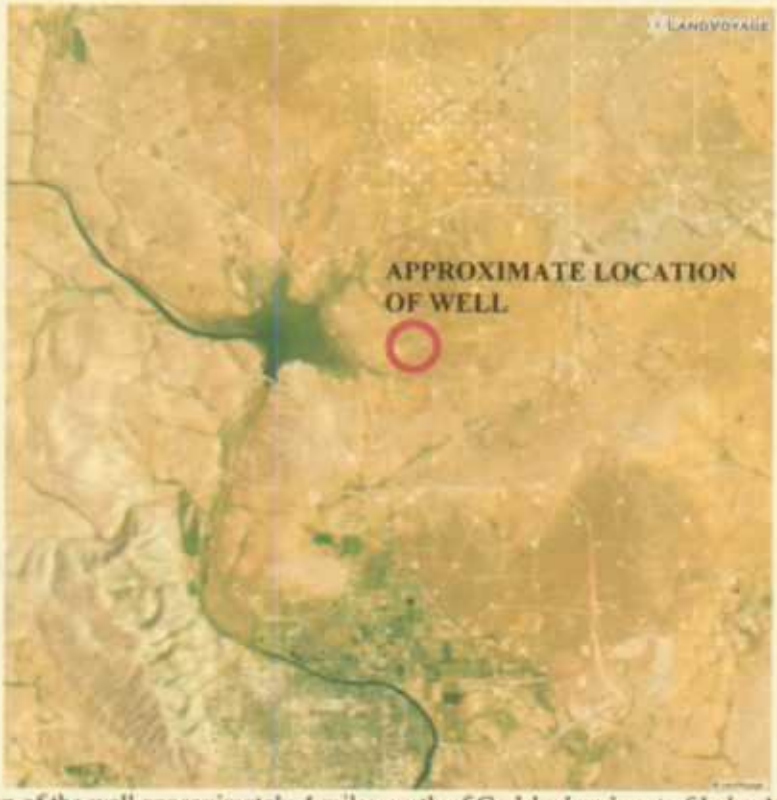


Figure 1. Location of the well approximately 4 miles north of Carlsbad and east of Lake Avalon.

[1] **No injuries from well blowout,** By Kyle Marksteiner, Current-Argus Staff Writer, Jun 21, 2006, 04:22 am

Hydrogeology

The most important aquifer of the area is the Capitan aquifer which provides the water supply for Carlsbad from a well field located west of the Pecos River near the Guadalupe Mountains. The Capitan aquifer is considered a single hydrological unit that consists of the Capitan Reef complex which is composed of the Capitan and Goat Seep Limestones and the Carlsbad facies of the Artesia Group. This Reef complex extends as an arc through southeastern New Mexico and southwestern Texas following the rim of the Delaware Basin. In New Mexico, the arc of the Capitan reef extends from the southwest of Carlsbad to the southeast of Jal (Figure 2). Near Carlsbad the thickness of the aquifer is about 1600 feet and lies below the alluvium in the valley. The main recharge to the aquifer is coming from Guadalupe Mountains and Dark Canyon through fractures and dissolution holes. Secondary recharge also occurs as leakage from Lake Avalon.

The quality of the water in the Capitan aquifer decreases towards the east. Near Carlsbad the chloride content is about 200 mg/l while the well North Cedar Hills about 1 mile NE from the "well control situation" site has a chloride content of 13,800 mg/l (Hiss, 1973). Average hydraulic conductivity in the same area is 2.4 feet/day (Huff, 1997) and aquifer thickness approximately 2,000 feet (Hiss, 1975).

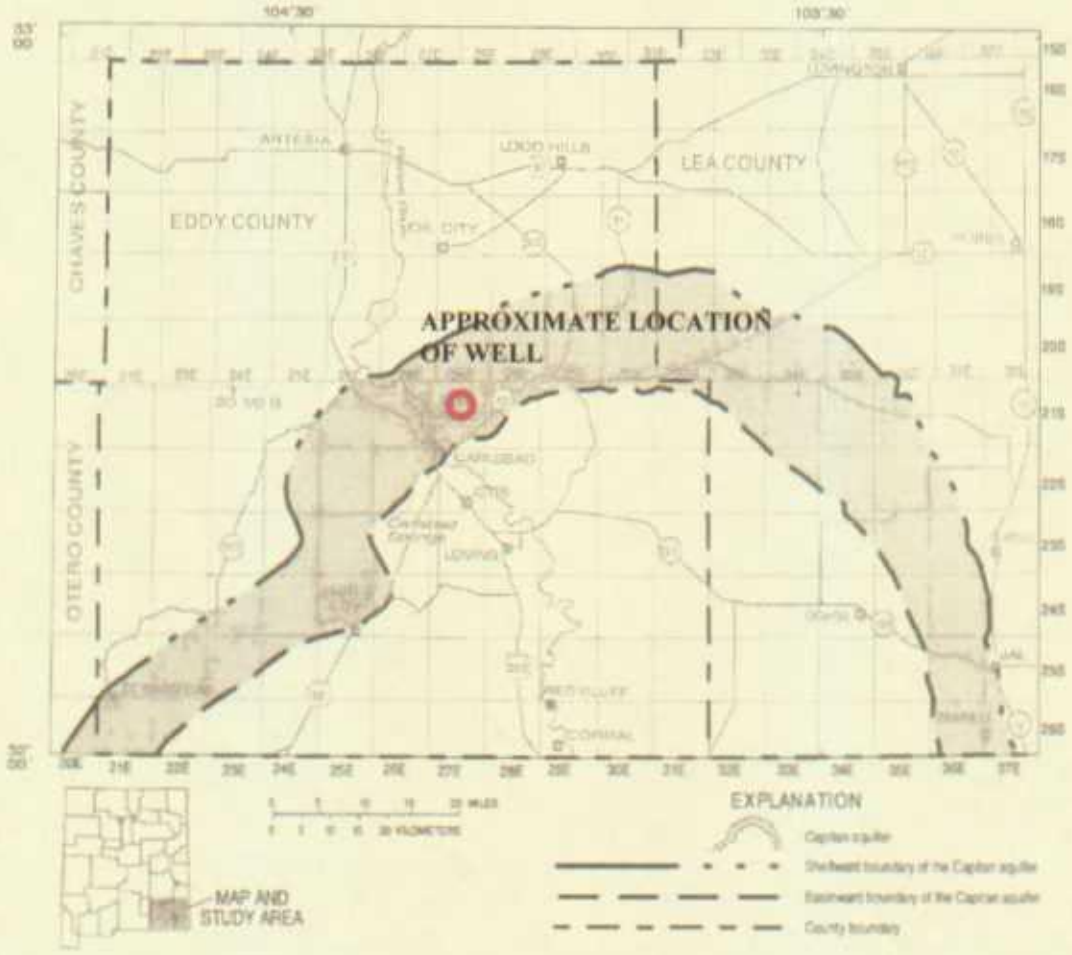


Figure 2. Location of the Capitan Aquifer in southeastern New Mexico (Huff, 1997).

The Capitan aquifer is mostly confined in the area of interest. The depth of its top is approximately 750 feet (Hiss, 1973; Hiss, 1976). Due to its depth and confined nature the Capitan aquifer is at no to little risk for contamination due to the failure of the well casing at depth 80 or 220 feet.

The hydrogeology at shallow depths of the "well control situation" is not well known. A well log obtained approximately one mile northeast of the site indicates that the Capitan Limestone is overlain by the Yates Formation (506-748 feet depth) and the Rustler Formation (0-506 feet depth). The hydrogeology at the site is probably quite similar. The Yates Formation consists of alterating beds of sandstone and dolomite in the carbonate facies and gypsum, red clay and silt, and sandstone in the evaporative facies. North of the site between Lake McMillan and Lake Avalon near the Pecos River this formation yields water to stock wells. The Rustler Formation consists of anhydrite, gypsum, red clay and sand, and two dolimite beds. The lower Culebra Dolomite bed is the principal water-bearing zone but the water is highly mineralized. The principal salt is calcium sulphate while its chloride content is relatively low. In a few cases it has been used for livestock watering (Cox, 1967; United States. National Resources Planning Board, 1942).

Groundwater Flow Direction

The ground water flow direction is critical for the evaluation of the potential threat to ground water quality caused by the "well control situation". The overall flow direction in the Capitan aquifer is towards the east. However, in the Carlsbad area the incision of the Pecos River, the presence of Lake Avalon, and the development of petroleum resources as well as ground water pumping have influenced the ground water flow regime resulting in flow directions from east to southwest (Uliana, 2001).

An analysis of ground water data provided by the USGS (Huff, 1997) (see Table 1 and Figure 3) and the Office of the State Engineer (see Table 2 and Figure 3) was not conclusive but indicated the most likely direction of ground water flow in the Capitan aquifer at the "well control situation" to be between the east and the south.

In the 1940s ground water in the Rustler Formation and alluvium north and northeast of Lake Avalon moved southeastward into playas east of Lake Avalon where it was discharged by evapotranspiration, or it continued underground and was discharged into the Pecos River downstream from Carlsbad Springs (Cox, 1967). Therefore, it is expected that ground water flow in the Rustler Formation at the site is approximately towards the southeast.

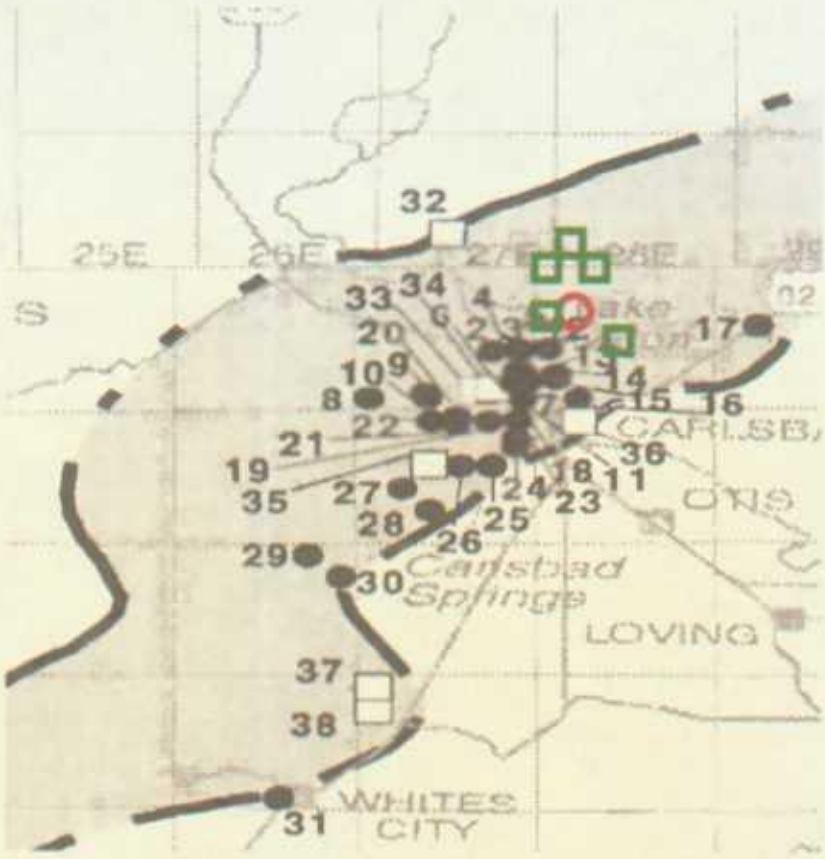


Figure 3. Location of the wells used to determine groundwater flow directions in the area. Black dots are from Ground Water Site Inventory data base (Huff, 1997) with water levels of 1978 and 1993. The green squares are from the website of the Office of the State Engineer (see Table 2); locations are approximate. The red circle is the approximate location of the "well control situation".

Preliminary Immediate Work Plan

1. Use well logs and the piezometer to be drilled to evaluate the hydrogeological situation at the "well control situation". Of special interest are: (1) Is there a shallow aquifer located in the Rustler Formation above the Capitan aquifer?; (2) What is the ground water table depth of this shallow aquifer?; (3) What is the composition of the geological layers at the site?
2. Measure water levels in wells surrounding the "well control situation" to obtain reliable information about local ground water flow direction and ground water gradient in the shallow aquifer.
3. Sample soil and ground water at the site of the "well control situation" to determine extent of possible contamination, specifically concentrations and types of contaminants. It is especially important to analyze for Cl and Br in each sample so that the Cl/Br ratio can be used to trace the origins of the contaminants.
4. Analyze all new information to assess how to proceed.

Table 1. Groundwater depths south of the "well control situation" near Carlsbad used to estimate ground water flow direction and ground water table depth at the site (Huff, 1997).

Well Number	Location (Section #)	Groundwater depth (feet) 1978	Groundwater depth (feet) 1993
2	21S26E231333	43.35	43.56
3	21S26E244233	56.26	54.53
4	21S26E251142	71.15	
5	21S26E251424		49.9
7	21S26E254343	23.56	
8	21S26E312434		194.37
9	21S26E331122	166.02	
11	21S26E362211	20.18	22.39
12	21S27E193341	35.36	35.02
13	21S27E304243	14.81	
16	21S27E321124	14.33	14.18
17	21S28E173444		47.13
18	22S26E012333	37.09	35.04
19	22S26E022424	60.2	
21	22S26E033444	83.61	82.12
22	22S26E043442	125.8	
23	22S26E121121	38.1	
24	22S26E123414	34.24	33.09
25	22S26E143223	101.44	101.14
26	22S26E154220	155.28	153.69
27	22S26E203141	221.03	221.56
29	23S25E024432	405.5	
30	23S25E123322	403.71	
31	24S25E342211	823.2	

Table 2. Wells within two miles radius around the "well control situation" obtained from the data base on the website of the Office of the State Engineer.

Well Number	Easting	Northing	Elevation (feet)	GW depth (feet)	GW elevation (feet)	Year of Measurement
1	574170	3596843	3333	350	2983	1966
2	572559	3597412	3195	175	3020	2005
3	570964	3596813	3169	89	3080	2000
4	570695	3593499	3270	170	3100	1975
5	575701	3592110	3180	75	3105	1971

References

Cox, E.R. 1967. Geology and hydrology between Lake McMillan and Carlsbad Springs, Eddy County, New Mexico. U.S. Govt Print. Off., Washington.

Hiss, W.L. 1973. Capitan aquifer observation-well network Carlsbad to Jal, New Mexico Technical Report 38. United States Geological Survey.

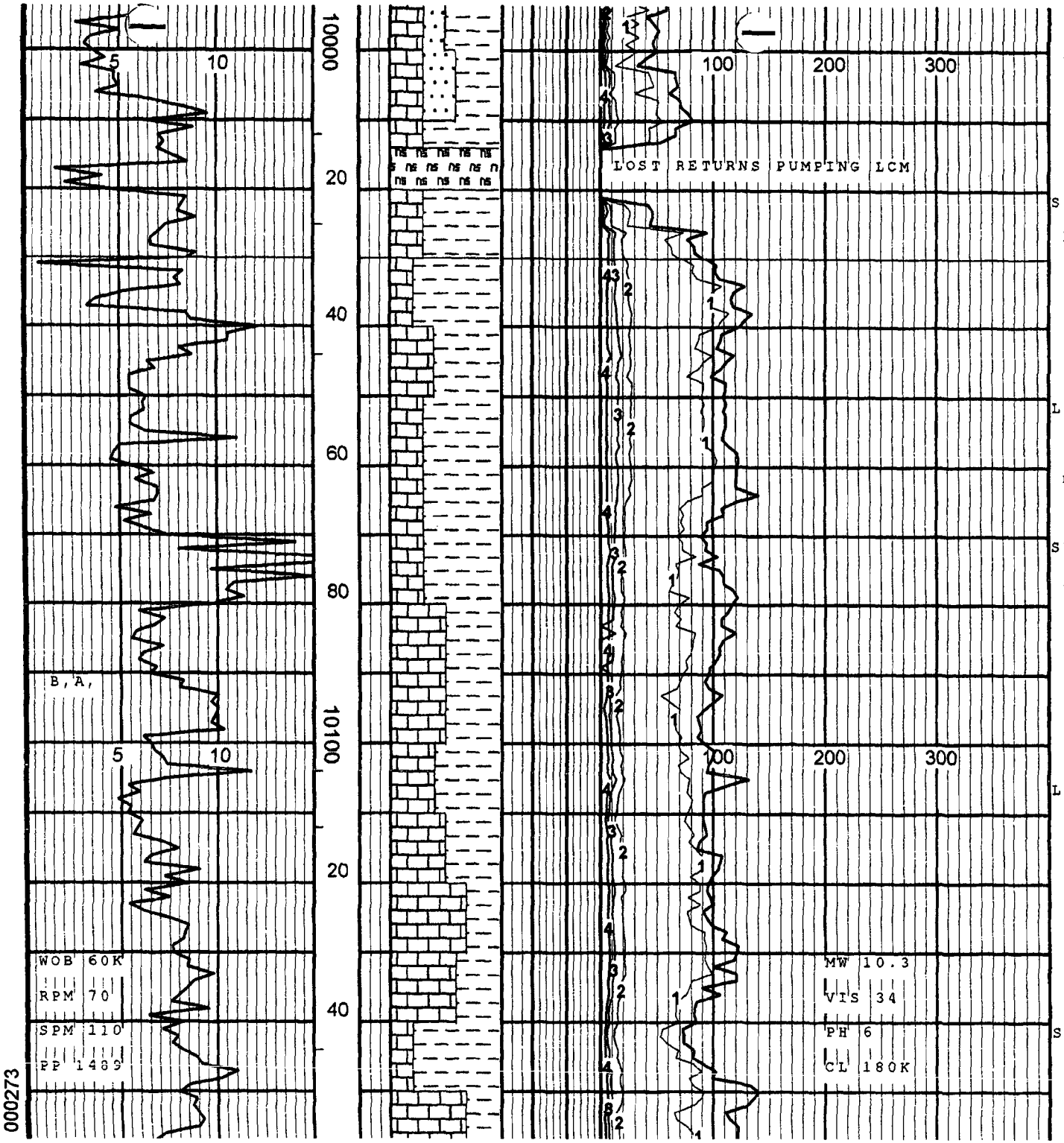
Hiss, W.L. 1975. Thickness of the Permian Guadalupian Capitan aquifer, southeast New Mexico and west Texas. New Mexico Bureau of Mines & Mineral Resources, New Mexico Institute of Mining and Technology, Socorro.

Hiss, W.L. 1976. Structure of the Permian Guadalupian Capitan aquifer, southeast New Mexico and west Texas. New Mexico Bureau of Mines & Mineral Resources, New Mexico Institute of Mining and Technology, Socorro.

Huff, G.F. 1997. Summary of available hydrogeologic data collected between 1973 and 1995 and information on all permeability data and aquifer tests for the Capitan aquifer, Eddy and Lea counties, New Mexico. U.S Geological Survey. Open File Report 97-370. United States Geological Survey.

Uliana, M.M. 2001. The geology and hydrogeology of the Capitan aquifer: a brief overview, p. 153-166, *In* R. E. Mace, et al., eds. Aquifers of West Texas, Vol. Texas Water Development Board Report 356.

United States. National Resources Planning Board. 1942. The Pecos River joint investigation: reports of the participating agencies. U.S.G.P.O., Washington.


10000
10100
5
10
100
200
300
20
40
60
80
L O S T R E T U R N S P U M P I N G L C M
B, A,
WOB 60K
RPM 70
SPM 110
PP 1489
MW 10.3
VIS 34
PH 6
CL 180K
sme sb/blky, frm-mod/ hrd, abndnt metal shavings in sample
SH: drk gry, gry, drk brn blky, sb/blky, slty, frm-mod/hrd
LS: brn, lt brn, tn, drk gry, vfn xln, dns, frm-mod/hrd
SH: drk gry, gry, drk brn brn, blky, sb/blky, rthy frm-mod/hrd, lmy ip
LS: lt brn, brn, off wht, vfn xln, frm, mod hrd, dns, mott
SH: drk gry, gry, lt gry, blky, sme flky, frm, mod hrd, rthy, lmy

000273

Company: DEVON ENERGY CORPORATION

Well: AVALON HILLS 7 FED #3

Location: Sec: 7 Twn: 21-S Rge: 27-E Blk:

Survey: 1010' FSL & 660' FEL API: 30-015-34468

County: EDDY State: NEW MEXICO

Elevation: KB: 3232.5' GL: 3211'

Contractor: PATTERSON RIG #74 Spud Date:

Depth Logged: From: 2400' To:

Date Logged: From: 5/30/2006 To:

Logger: R.G.REED- Unit: 14

MORCO GEOLOGICAL SERVICES

Carlsbad, New Mexico - (800) 748-2340

Shale | Limestone | Salt

Siltstone | Dolomite | Igneous

Sandstone | Anhydrite | Metamorphic

Conglomerate | Chert | No Sample

000271

Total Gas Calibration: 100 Gas Units = 1% Methane Equivalent

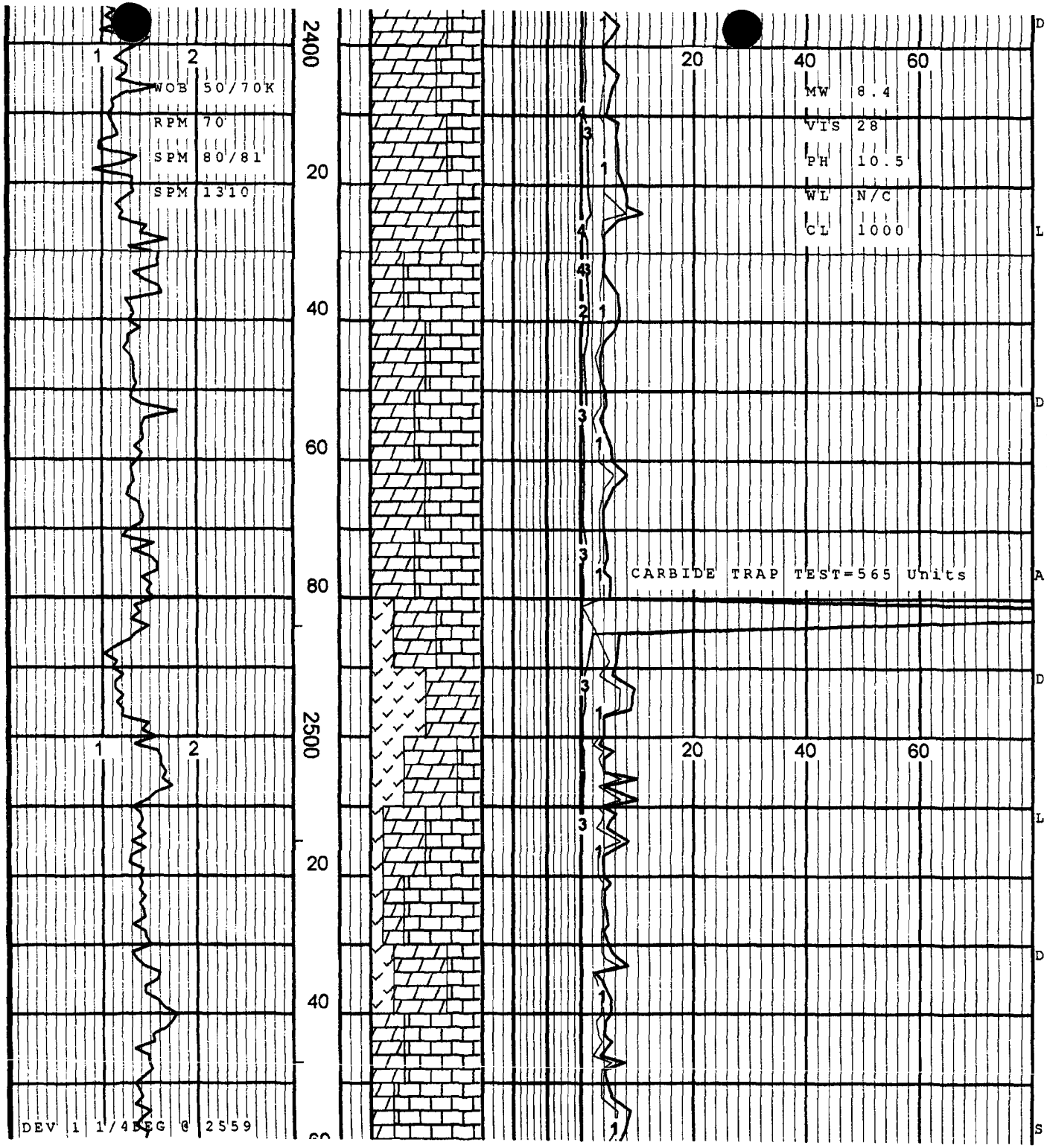
Chromatograph Calibration: 1 Unit = 100 ppm of each component:

Total Gas Detector Type: Catalytic Combustion Filament (Hot Wire)

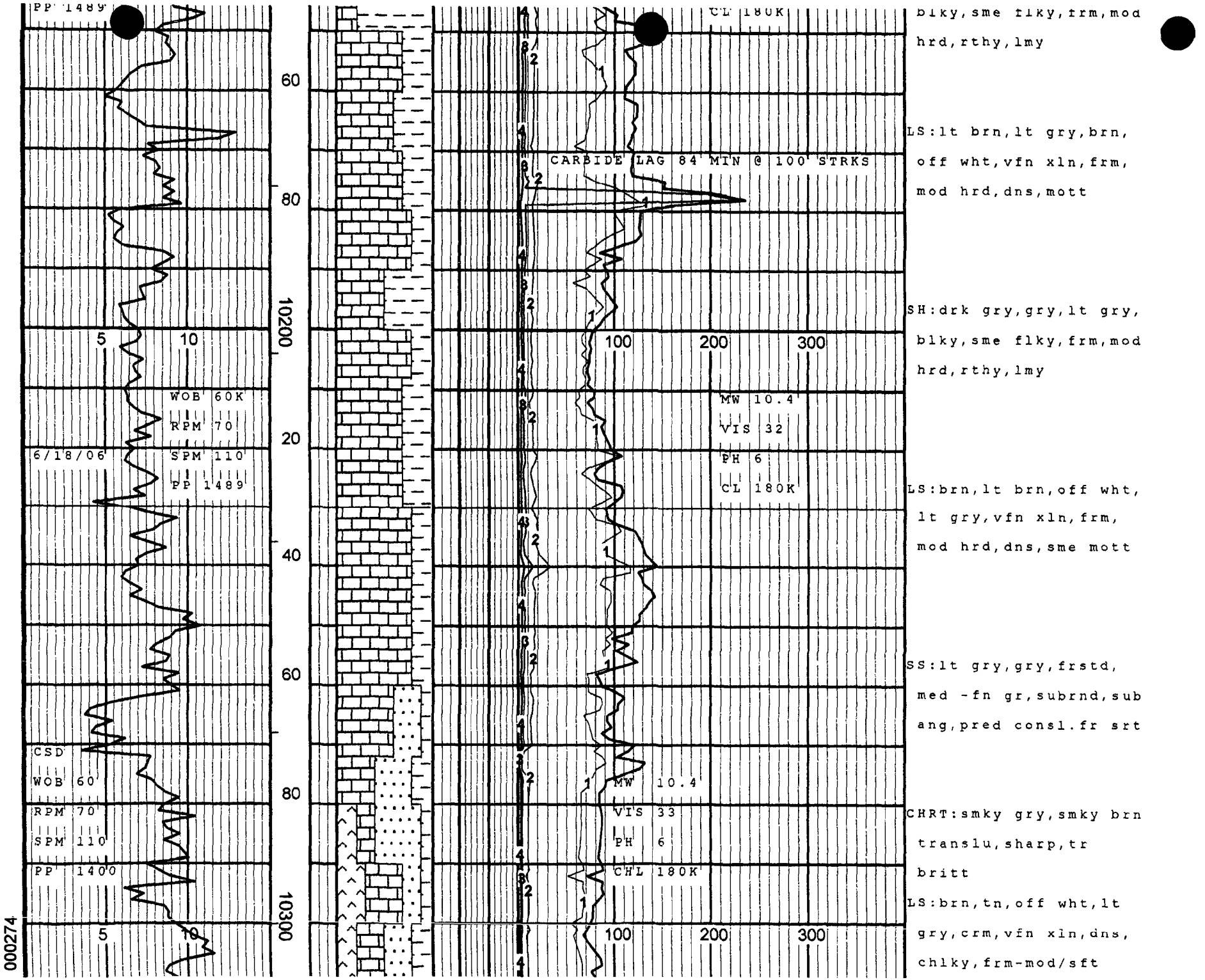
Chromatograph Type: Catalytic Combustion Filament (Hot Wire)

Extractor Evacuation Rate: 10 Standard Cubic Feet per Hour

DRILLING RATE (min/ft)	DEPTH (OFF BTM / OFF PMP)	POROSITY (GFT)	LITH	CUT (TFG)	FLUOR	STAIN	Total gas (Units) / C1 (Units) / C2 (Units) / C3 (Units) / C4 (Units) / C5 (Units)	REMARKS
DRLG CONTRACTOR PATTERSON RIG #74							COMMENCE TWO MAN LOGGING AT 2400'	
SET 13 3/8" CSG AT 629'	60						DRLG WITH FRESH WATER	
BIT #3 12 1/4" VAREL CH31MS							CALIBRATE ALL EQUIPMENT	
DEV. 1 DEG AT 2214'	80						NOTE: RUNNING BOTH PUMPS ON HOLE CARBIDE LAG=29 MIN 80/81 SPM	


WOB 50/70K
RPM 70
SPM 80/81
SPM 1310
MW 8.4
VIS 28
PH 10.5
WL N/C
CL 1000
CARBIDE TRAP TEST=565 Units
DEV 1 1/4 DEG @ 2559
2400
2500
DOLO:tn,crm,bff,vfn xln,frm,britt,sucro, sm lmy
LS:lt brn,brn,vf-micro xln,dns,frm-mod hrd, cln
DOLO:tn,crm,bff,sm off wht,vfn xln,frm,sme britt,sucro
ANHY:clr,mass gyp
DOLO:tn,crm,bff,sm off wht,vfn xln,sucor,frm sme britt,lmy in prt
LS:brn,lt brn,vfn-micr xln,frm,dns,cln
DOLO:tn,crm,off wht, lt gry,vfn xln,frm,sm britt,sucro,lmy
SS:gry,lt gry,vfn gr,

000272


PP 1489
CL 180K
blky,sme flky,frm,mod
hrd,rthy,lmy
60
CARBIDE LAG 84 MIN @ 100 STRKS
LS:lt brn,lt gry,brn,
off wht,vfn xln,frm,
mod hrd,dns,mott
80
10200
5
10
100
200
300
SH:drk gry,gry,lt gry,
blky,sme flky,frm,mod
hrd,rthy,lmy
WOB 60K
RPM 70
MW 10.4
VIS 32
PH 6
6/18/06
SPM 110
PP 1489
CL 180K
20
LS:brn,lt brn,off wht,
lt gry,vfn xln,frm,
mod hrd,dns,sme mott
40
60
SS:lt gry,gry,frstd,
med -fn gr,subrnd,sub
ang,pred consl.fr srt
CSD
WOB 60
MW 10.4
RPM 70
VIS 33
SPM 110
PH 6
CHRT:smky gry,smky brn
translu,sharp,tr
britt
80
PP 1400
CHL 180K
LS:brn,tn,off wht,lt
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5
10
100
200
300
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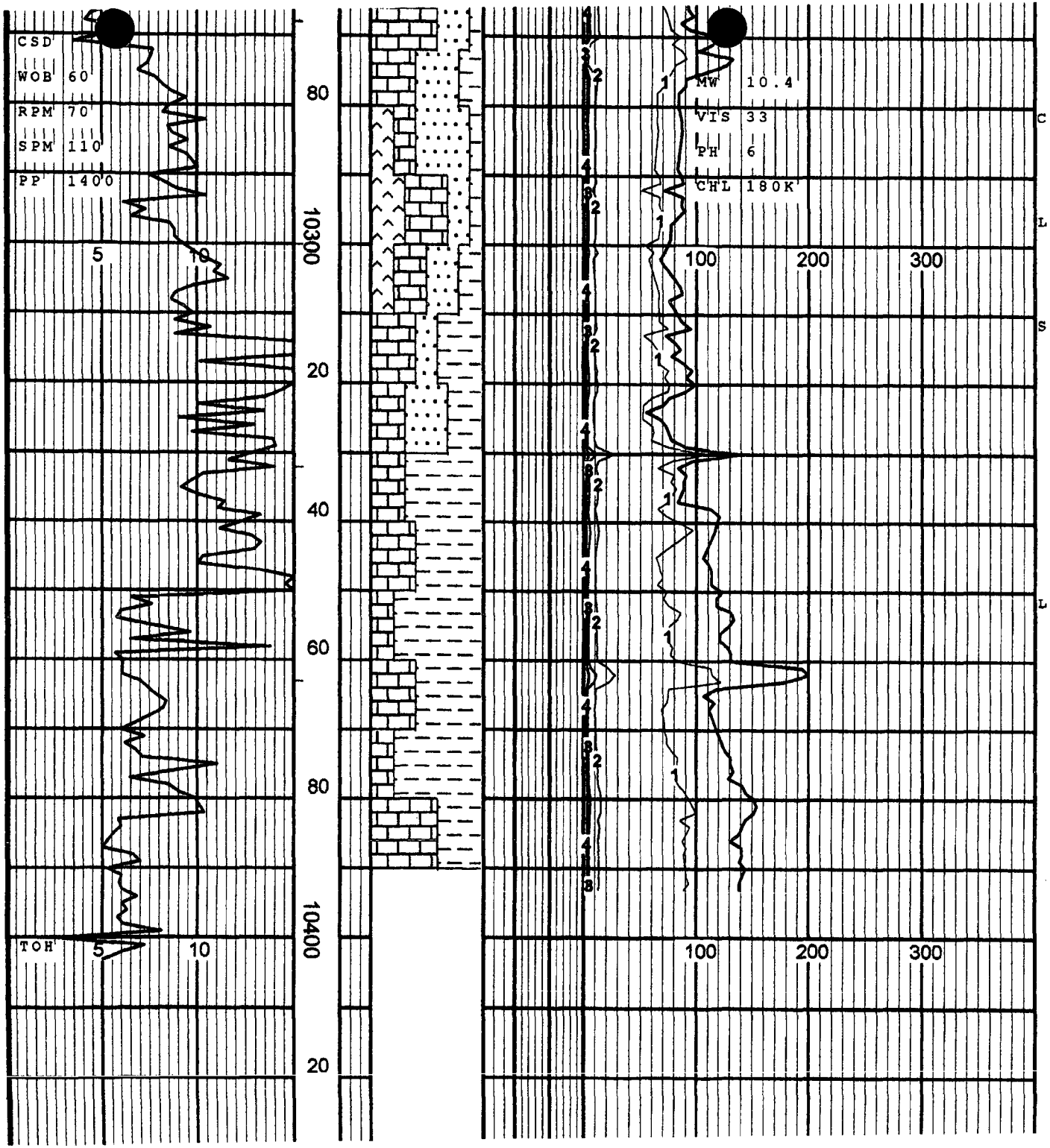

ang,pred consl.fr srt

CHRT:smky gry,smky brn translu,sharp,tr britt

LS:brn,tn,off wht,lt gry,crm,vfn xln,dns, chlky,frm-mod/sft

SH:brn,drk brn,drk gry gry,sb/blky,splntry, frm-mod/hrd,abndnt free mica,fr amnt metal shavings

LS:brn,tn,med brn,sme off wht,vfn xln,dns, frm-mod/hrd,sme chlky

000275

Mike – Ron and I have reviewed the protocol document, tweaked it somewhat and attached it back for you. Take a look at this version, if it looks alright to you, would you move ahead with adjusting the cost estimate so we can forward it to our operations folks. Also, I will be trying to locate an access agreement that we can use with the BLM (or do they have a document they prefer?). Also, I have a quick question regarding the chlorides analysis – is this a true total chloride analysis or a TDS measurement to indicate chlorides content? I know we are looking at anions/cations in the water, so was curious about the chlorides. Not picking on this, but it has been a point of discussion around here for a while and we can't find a good answer. Thanks and I am in the office all day if you need to reach me. CB

<<PR-54C Devon Avalon Phase II - cb w RDT comments 7-10-06.doc>>

Chris Biagi, REM
Senior Remediation Specialist
Devon Energy Corporation
405.228.8327 - office
405.850.2649 - cell
405.552.7839 - fax

From : Graciela Hendrickx <Graciela_Hendrickx@msn.com> | Devon Aval... | Inbox
Sent : Saturday, July 8, 2006 1:14 PM
To : "Mike Griffin" <whearth@msn.com>
Subject : Re: Avalon Protocol & Estimate

Attachment : report_July_7_2006.doc (1.52 MB)

Mike:

I have found some more relevant information from a well log about 1 mile northeast of the section of the site. It is clear now that the principal risk is not in the Capitan aquifer but in the Rustler Formation. The literature review indicates that water in this formation is located in the lower Dolomite bed. It has a rather high salt content. I don't know how much concern there is for contaminating this formation. If I need to do some modeling we still need to know the lithology in the well, Cl and Br, water content, and other contaminant analyses.

I have put all this info in my revised report that is attached.

Kind Regards, Graciela.

> ----- Original Message -----
> **From:** Mike Griffin
> **To:** Ron.Truelove@dvn.com
> **Cc:** graciela_hendrickx@msn.com
> **Sent:** Thursday, July 06, 2006 4:38 PM
> **Subject:** RE: Avalon Protocol & Estimate
>
> It's always a risk to drill to groundwater & I was hoping that through advancing two comparatively shallow sampling bores & tying them into HYDRUS 2D we could prepare a cogent explanation to the OCD of the observed effects.
>
> Our hydrologist has indicated that the water well data for the area is extremely sparse and quite erratic as to depths (350', 175', 170' & 89' within the section). The 89' well is probably set in the gravel layer - almost certainly a perched table. We do not yet have accurate geocoordinates of the site. Depending on where it is located we may have to sink as many as three monitor wells to accurately determine gradient. At around $25.00 per foot I was really hoping to be able to avoid it.
>
> I believe that Wayne at the OCD is prepared to consider this a relatively minor event and will agree to the limited plan described within the existing protocol. The auger rig would be hard pressed to reach 170', If it is necessary to actually reach the aquifer, (that is, if we show elevated chlorides within the deeper profile below the gravel layer) we can come back into the auger holes with an air rig, forgo samples below auger depth and drill to water.
>
> Mike Griffin Whole Earth Environmental, Inc. Phone: 281.394.2050 FAX: 281.394.2051

From: *"Truelove, Ron" <Ron.Truelove@dvn.com>*
To: *"Mike Griffin" <whearth@msn.com>*
CC: *"Biagi, Chris" <Chris.Biagi@dvn.com>*
Subject: *RE: Avalon Protocol & Estimate*
Date: *Thu, 6 Jul 2006 16:31:01 -0500*

Did you see my comment related to the depth... Some of our tech folks believe that the casing parted at approx. 100 feet. Others believe it parted at approx. 200 feet. Should we be going to 200-250 feet instead of just 100 feet? Your thoughts?

Thanks,

Ron

From: Mike Griffin [mailto:whearth@msn.com]
Sent: Thursday, July 06, 2006 2:51 PM
To: Truelove, Ron
Subject: RE: Avalon Protocol & Estimate

All good suggestions!

Attached, please find the modified protocol.

Mike Griffin Whole Earth Environmental, Inc. Phone: 281.394.2050
FAX: 281.394.2051

From: *"Truelove, Ron" <Ron.Truelove@dvn.com>*
To: *"Mike Griffin" <whearth@msn.com>,"Biagi, Chris" <Chris.Biagi@dvn.com>,"Johnston, Joe" <Joe.Johnston@dvn.com>*
CC: *<ldeuel@hughes.net>,<graciela_hendrickx@msn.com>*
Subject: *RE: Avalon Protocol & Estimate*
Date: *Thu, 6 Jul 2006 14:08:29 -0500*

Mike,

Please see my comments on the attached.

Due to vacations and days off, our group cannot meet until Monday. Please hold off until you hear from us.

Thanks,

Ron

From: Mike Griffin [mailto:whearth@msn.com]
Sent: Thursday, July 06, 2006 8:02 AM
To: Truelove, Ron; Biagi, Chris; Johnston, Joe
Cc: ldeuel@hughes.net; graciela_hendrickx@msn.com
Subject: Avalon Protocol & Estimate

OK, this time WITH the attachments...

Good Morning, All:

Attached, please find a copy of our proposed Phase II investigation protocol for the Avalon site along with our estimate of costs all related costs. If all goes well, we should have the drilling completed by the end of next week with a formal report following approximately two weeks later.

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Please review & advise of any proposed changes.

Mike Griffin

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Phone: 281.394.2050

FAX: 281.394.2051

>>< PR-54DevonAvalonPhaseIIRDTComments.doc >>

whearth@msn.com

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From : Lloyd Deuel <ldeuel@hughes.net>
Sent : Saturday, July 8, 2006 11:16 AM
To : "Mike Griffin" <whearth@msn.com>
Subject : Avalon

Attachment : InsituLeachforSalinePit.doc (0.06 MB)

Mike,
I liked her report. I am wondering if soil vapor analyses can track blowout plume. Chloride and other constiutents should be inside the gas plume. Perhaps even a few strategically placed soil gas monitoring wells to demonstrate dissipation of methane.

Sending Insitu Leach Paper for your information.
Lloyd

From : Graciela Hendrickx <Graciela_Hendrickx@msn.com>
Sent : Saturday, July 8, 2006 10:29 AM
To : "Mike Griffin" <whearth@msn.com>
Subject : piezometer placement

Mike:

The least expensive option at this moment is:

Step 1. Drill one piezometer as close as possible to the "well control situation" until you reach the ground water table of the unconfined aquifer and -if possible- to a depth below the blowout of the casing. We need to know whether (1) there is an unconfined aquifer, (2) what is the depth from the surface to the water table, and (3) the depth of contamination. Without unconfined aquifer the contaminants will be located in the vadose zone and probably move rather slowly. If there is an unconfined aquifer some of the contaminants will dissolve and may move away from the site. Again have all samples you take analyzed for texture, Cl and Br, water content, and other contaminants you deem necessary.

Step 2. Locate nearby wells (within 1 to 2 miles) where the water level can be measured. This will give us information about the hydraulic gradient and the flow direction of the ground water.

Good luck with rewriting the protocol.

Kind Regards, Graciela.

From: Mike Griffin

> **To:** Ron.Truelove@dvn.com
> **Cc:** graciela_hendrickx@msn.com
> **Sent:** Thursday, July 06, 2006 4:38 PM
> **Subject:** RE: Avalon Protocol & Estimate
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Mike Griffin Whole Earth Environmental, Inc. Phone: 281.394.2050 FAX: 281.394.2051

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To: *"Mike Griffin" <whearth@msn.com>*
CC: *"Biagi, Chris" <Chris.Biagi@dvn.com>*
Subject: *RE: Avalon Protocol & Estimate*
Date: *Thu, 6 Jul 2006 16:31:01 -0500*

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To: Truelove, Ron
Subject: RE: Avalon Protocol & Estimate

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Mike Griffin

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Phone: 281.394.2050

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>>< PR-54DevonAvalonPhaseIIRDTComments.doc >>

whearth@msn.com

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From : Graciela Hendrickx <graciela_hendrickx@msn.com> | Inbox
Sent : Thursday, July 6, 2006 9:51 AM
To : "Mike Griffin" <whearth@msn.com>
Subject : Re: groundwater depth

good morning Mike,
In the data base of the State Engineer I found 4 wells with groundwater depths within a radio of 1 mile from the section 7:
T21SR27E 05 350 feet
T21SR27E 06 175 feet
T21SR26E 01 89 feet
T21SR26E 13 170 feet

Graciela
----- Original Message -----

From: Mike Griffin
To: graciela_hendrickx@msn.com
Sent: Thursday, July 06, 2006 6:07 AM
Subject: Re: Devon Blowout

Wow, you were sure up late last night...

Thanks tons for the update.

We hit a minor glitch last night in that Devon Corporate wants a meeting with the Operations Dept. to approve the work plan & budget. Do we have any idea yet as to the depth to groundwater of the nearest known well? If greater than 250' or so, the contaminate migration model should be pretty much a snap - all we would have to do is show a likely pathway to the surface that replicates the field findings.

I'm really trying to get away from the necessity of having to drill monitor wells.

Hope you got some rest. I'll forward the Phase II protocol to you upon completion this morning.

Mike Griffin Whole Earth Environmental, Inc. Phone: 281.394.2050 FAX: 281.394.2051

From: *"Graciela Hendrickx" <graciela_hendrickx@msn.com>*
To: *"Mike Griffin" <whearth@msn.com>*
Subject: *Re: Devon Blowout*
Date: *Wed, 5 Jul 2006 21:58:38 -0600*

Good Morning Mike:

Thank you for this information. I am preparing a preliminary report for you to assist with the work plan. I have a good idea of the overall hydrogeology but it is not so easy to determine with certainty the direction of ground water flow at the site due to a lack of wells with measurements. At least in the usgs report from 1995 there is no information; almost all information is about the wells west of Carlsbad. In addition, ground water flow is not only affected by the regional hydrogeology but also by local pumping operations in the oilfields. So, an inventory of new wells that are not yet reported will be useful. Otherwise new monitoring wells need to be installed surrounding the site. At least three wells are needed to determine approximately the direction of ground water flow.

The OSE has a Carlsbad Area Ground Water model (CAGW) which simulates the water levels in the Capitan aquifer and the alluvial aquifer surrounding Carlsbad. Jan knows two of the developers of this model. If you like, he could contact these colleagues to find out how CAGW could help evaluate the situation of the site. It seems best to use a model developed by the OSE to prepare a report for the NMOCD. You can contact Jan to discuss this further.

I expect of finish my preliminary report by Friday. Please, let me know if I need to address any other issues than the ones discussed above.

Kind Regards, Graciela.

---- Original Message ----
From: Mike Griffin
To: graciela_hendrickx@msn.com
Sent: Wednesday, July 05, 2006 1:38 PM
Subject: Re: Devon Blowout

I checked with Devon this morning & found that they didn't employ a mud man during the spudding. The only descriptions we've got are by the tool pusher & they're not anything we can use. I will be at the site next Monday & will call you with the geocoordinates as soon as I arrive.

I spoke to the Production Super & the guy that drew the sketch I forwarded to you. They think that the hole is fine below 220'. They believe that the surface casing let go @ that depth & the gas & mud went outside of the casing until it reached the gravel layer. Once there, it went laterally. Nice theory...

I'm going to drill some core samples about 50' from the wellhead to a depth that gets me below the gravel. We've on-site instruments so we can tell where the contamination stops. If our field results match the theory, I'll move the it over to a location just outside of the widest surface crack & once again drill to the gravel.

We'll confer before we drill any more than two holes.

I do need to give Devon some budget numbers today. Do you think you can do the preliminary modeling in forty hours? If you need more time, it will be no problem to get it.

Mike Griffin Whole Earth Environmental, Inc. Phone: 281.394.2050 FAX: 281.394.2051

> From: *"Graciela Hendrickx" <graciela_hendrickx@msn.com>*
> To: *"Mike Griffin" <whearth@msn.com>*
> Subject: *Re: Devon Blowout*
> Date: *Wed, 5 Jul 2006 06:58:22 -0600*
>
> Good Morning Mike:
>
> I want to give you a quick update of my progress. I have borrowed several books and reports from the library at NMT. I also could download USGS reports from the web. I have enough information now about the general geohydrological situation. What I need from you if

possible is the following: 1. The exact coordinates of the well; 2. The well log.

Kind Regards, Graciela.

---- Original Message ----
From: Mike Griffin
To: graciela_hendrickx@msn.com
Cc: [illegible]@aol.com ; [illegible]@hughes.net ; [illegible]@dvn.com
Sent: Monday, July 03, 2006 6:24 AM
Subject: Devon Blowout

Good Morning, Graciela:

Our initial assignment is to delineate the boundaries of any potential problem and to determine what (if any) C of C's may pose a threat to the environment.

We've a few facts to work with. We know that there is a gravel layer at about 80'. The drilling crew had a very difficult time setting the surface casing through this layer & I presume that it's quite porous. We can look at the drilling logs and county soil maps to better determine the subsurface morphology.

We have a rough sketch of where the gas and mud came to surface. Based on this we can get a pretty good idea of the probable lateral extent of surfaced contamination. Ideally, you can construct a model of events that closely mirrors the actual ground observations though it will probably require that you work backwards from the sketch.

Before we start drilling expensive delineation bores, we should have a good theoretical concept of what probably happened. The casing parted at a depth of approx. 220' and surfaced as described by the sketch. We need to know where the various aquifers are situated, and what soil porosities and permeablities lie above the 220' depth. This is your first and most critical task.

From your theoretical model, we can then design a sampling protocol that will have the objective of defining the location and concentrations of the C of C's. When we have the actual lab results in hand we can finally assess the potential threat to groundwater and if necessary come up with an abatement plan.

While the boring operations are going on, one of our guys will be assessing the surface damage and preparing a surface remediation plan. This part of the project will probably be quite straightforward.

I'll call you later in the day & kick it around a bit further.

Mike Griffin

Whole Earth Environmental, Inc.
Phone: 281.394.2050
FAX: 281.394.2051

505 748-5231
Mike Dewitt cell

BJ Cathey 390-5893
Ronnie Carey 748-3528

DEVON
Chris Biagi C- 405-850-2649
O- 405-228-8327

Don Mayberry C- 748-5235
O- 505 748 3371
e-mail Don.Mayberry@dvn.com

Mike Myers C- 505-513-0782
O- " 748-0187
e-mail mike.myers@dvn.com

MMX Jason O- 505-236-6600
C- 361-3547
MMX@carlsbadnm.com mmx3@plateautel.net

OCD Tim Gumm 0505-748-1283 x102
C 505-626-0824 1301 W Grand
e-mail Artesia 88210

RESPEC Dave Hennard O-505-268-2661
C-
e-mail

City of Carlsbad Richard Aguilar O- 505 887-1191
C-
e-mail raguilar@carlsbadnm.com

Joe.Johnston@dvn
505 748-3371
513-0630

From : Biagi, Chris <Chris.Biagi@dvn.com>
Sent : Friday, June 30, 2006 11:20 AM
To : "Mike Griffin" <whearth@msn.com>
Subject : Location

Sec. 7 – T21S – R27E, Eddy Co. Non-residential area.

Chris Biagi, REM
Senior Remediation Specialist
Devon Energy Corporation
405.228.8327 - office
405.850.2649 - cell
405.552.7839 - fax

505

459-9025

gracielaⓐ Hendrickx@ msn.com

devon Energy

Memo

To: GERALD BROCKMAN ; BILL DOUGHERTY

From: MIKE DEWITT

CC:

Date: June 30, 2006

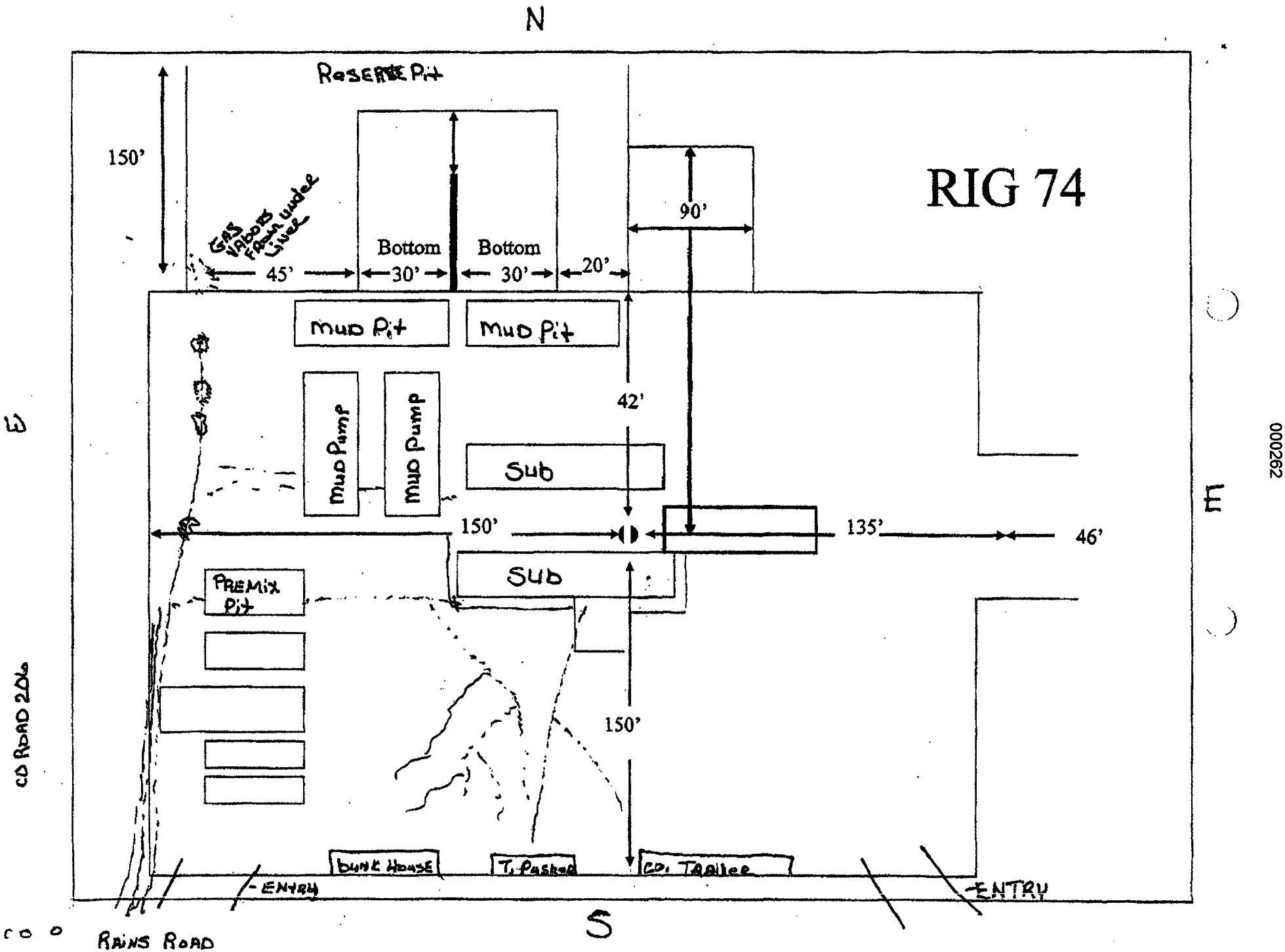
Re: INCIDENT ;(KICK) ON AVALON HILLS 7 FED COM #3

6-19 11:PM 60' Drillor Kick ROP Rutar. Strings

1. Most of the gas to surface was around the back yard area [mud pumps ; pre mix tank area. This is @ 125' east of well bore .
2. The reserve pit had gas vapors coming out from under pit liner on north east corner of pit . @ 150' north east of well bore .
3. Gas and a small stream of drilling mud @ 5-10 bbls mud ran from east side of location @ 150' east of wellbore ; south175' to Rains Road .Mud ran down bar ditch beside Rains Road east @ 150' – 200'.
4. Spider web like cracks appeared from well bore to @ 145' south east of well bore toward trailer houses . most of the cracks had gas vapors seeping or spewing from them no fluid . Cracks to numerous to count .
5. Rains road @ 175'-190' from well bore to the south had gas seeping from cracks in the pavement . @ 175'-190' south of well bore and east on Rains Road @ 100'- 200' . It appeared to have 3 -4- main cracks in the pavement close to the middle @ 8' from either side of the pavement.
6. Drainage ditches on south side of sub had gas seeping from them. @75' long . Starting from vee door end of sub to the east to the west.

7. **From intersection of co. road 206 and rains road location @ 1/10 mile east.**

Thanks Mike DeWitt


N
RESERVE Pit
150'
GAS VAPORS FROM under Liner
45'
Bottom
30'
Bottom
30'
20'
90'
RIG 74
Mud Pit
Mud Pit
Mud Pump
Mud Pump
42'
Sub
150'
135'
46'
Sub
PREMIX Pit
150'
BUNK HOUSE
T. PUSHER
CO. TRAILER
ENTRY
ENTRY
W
E
S
CO ROAD 20
RAINS ROAD

000262

From : Graciela Hendrickx <graciela_hendrickx@msn.com>
Sent : Monday, July 10, 2006 8:00 AM
To : "Mike Griffin" <whearth@msn.com>
Subject : Re: Capitan aquifer

Hi Mike,
The depth of the groundwater (100-200 feet) is for the Capitan aquifer. Since it is confined the water is under pressure and this is the reason it is above the top of the aquifer. It does not mean that the aquifer is contaminated by the blow out. The Rustler formation is overlying the Yates formation and the Capitan aquifer. So far this is the formation were the casing rupture occurs. In this formation the reported saline aquifer used for stock is in the dolomite layer at the bottom of the formation. It is possible to have local layers with perched water tables. We will know if there is any perched water table and how deep from the information obtain from the piezometer.
Graciela.

----- Original Message -----
From: Mike Griffin
To: Ron.Truelove@dvn.com
Cc: graciela_hendrickx@msn.com
Sent: Thursday, July 06, 2006 4:38 PM
Subject: RE: Avalon Protocol & Estimate

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CC: *"Biagi, Chris" <Chris.Biagi@dvn.com>*

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Date: *Thu, 6 Jul 2006 16:31:01 -0500*

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To: Truelove, Ron
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Graciela.

Collect Same

0-3" 127
60
3-9"

RICCA CHEMICAL COMPANY

1-888-GO-RICCA

>>Questions? Comments? Click here to contact us

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Lot Number:

<Go>

MSDS Search

Product Number:

<Go>

Ricca.Edu

See our technical tips for Potassium Chromate...

Potassium Chromate

Chemical Formula	K_2CrO_4
Formula Weight	194.19
CAS No.	7789-00-6

A619
28560

Potassium Chromate is used as an indicator in the determination of Chloride by titration with standard Silver Nitrate solution. This method is called the Mohr method of determining Chloride and is based on the formation of a red precipitate of Silver Chromate at the endpoint after all the Chloride has been precipitated as white Silver Chloride. A 5% solution of Potassium Chromate that has been Chloride neutralized is commonly used. Approximately 1 mL of this indicator should be used per 100 mL of sample volume.

The accuracy of the Mohr method decreases as the Silver Nitrate concentration decreases due to the amount of excess Silver Nitrate that must be added to produce enough Silver Chromate to be seen visually. The Mohr method must also be performed in the pH range of 6.5 to 9. If the pH is too high, brownish Silver Hydroxide forms and masks the endpoint. If the pH is too low, the Chromate is converted to Dichromate and the endpoint comes too late or can not be perceived at all. In the presence of Ammonium ions, the pH must be kept below 7.2 to prevent partial conversion of the precipitate to soluble Ammine complexes.

For comparison purposes, all Mohr tirations should be carried out at about the same temperature, since the solubilities of Silver Chloride and Silver Chromate depend on temperature. Good stirring during the addition of the Silver Nitrate is also required; otherwise, Silver Chromate that forms locally before the endpoint can become occluded in the Silver Chloride precipitate instead of redissolving. Poor agitation could lead to an endpoint that is neither sharp nor reproducible. The reactions for the Mohr titration are:

$$Ag^+ + Cl^- \rightarrow AgCl \text{ (white precipitate)}$$

$$2\ Ag^+ \text{ (excess)} + CrO_4^{2-} \rightarrow Ag_2CrO_4 \text{ (red precipitate at endpoint)}$$

.1 N Silver nitrate
Potassium Chromate

518 - 792 - 5808
803 - 327 - 6880
888 - 467 - 4222

QP-96

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Sampling and Testing Protocol
Chloride Titration Using .1 Normal
Silver Nitrate Solution

Completed By:	Approved By:	Effective Date: / /

1.0 Purpose

This procedure is to be used to determine the concentrations of chlorides in soils.

2.0 Scope

This procedure is to be used as the standard field measurement for soil chloride concentrations.

3.0 Sample Collection and Preparation

3.1 Collect at least 80 g. of soil from the sample collection point. Take care to insure that the sample is representative of the general background to include visible concentrations of hydrocarbons and soil types. If necessary, prepare a composite sample of soils obtained at several points in the sample area. Take care to insure that no loose vegetation, rocks or liquids are included in the sample(s).

3.2 The soil sample(s) shall be immediately inserted into a one quart or larger polyethylene freezer bag. Care should be taken to insure that no cross-contamination occur between the soil sample and the collection tools or sample processing equipment.

3.3 The sealed sample bag should be massaged to break up any clods.

4.0 Sample Preparation

4.1 Tare a plastic cup having a minimum six-ounce capacity. Add between 80-120 grams of the soil sample and record the weight.

4.2 Add the same weight of distilled water to the soil sample and stir thoroughly using a glass or plastic stir stick.

4.3 Allow the sample to set for a period of thirty minutes. The sample should be stirred at least three times before fluid extraction.

4.4 Carefully pour off the free liquid from the sample through a paper filter into a clean plastic cup.

5.0 Titration Procedure

5.1 Using a graduated pipette, remove 10 ml extract and dispense into a clean plastic cup.

5.2 Add 2-3 drops potassium chromate (K_2CrO_4) to mixture.

5.3 If the sample contains any sulfides (hydrogen or iron sulfides are common to oilfield soil samples) add 2-3 drops of hydrogen peroxide (H_2O_2) to mixture. Allow the mixture to set for a minimum of five minutes.

5.4 Using a 1 ml pipette, carefully add .1 normal silver nitrate solution to sample until solution turns salmon red when viewed with yellow goggles. Be consistent with endpoint recognition.

6.0 Calculation

Multiply the amount of silver nitrate used in step 5.4 by 354.5 to obtain the chloride concentration in mg/L.