AP - 33

ANNUAL MONITORING REPORT

YEAR(S):

12/22/2006

Chavez, Carl J, EMNRD

From: Weathers, Stephen W [swweathers@duke-energy.com]
Sent: Friday, December 22, 2006 12:30 PM
To: Chavez, Carl J, EMNRD
Cc: Ward, Lynn C; Weathers, Stephen W
Subject: DEFS Eldridge Project (AP#33)

Mr. Chavez

Attached you will find the 3rd Quarter 2006 groundwater monitoring report for the DEFS Eldridge Project **(AP-33)** located near Monument, New Mexico (Unit P, Section 21, Township 19 South, Range 37 East).

I will be sending a CD of this report to Larry Johnson at the Hobbs District Office.

If you have any questions, please give me a call at 303-605-1718.

Thanks

Steve Weathers
Duke Energy Field Services, LP

Duke Energy® Field Services

370 17th Street, Suite 2500
Denver, Colorado 80202
303-595-3331 – main
303-605-1957 – fax

December 22, 2006

Mr. Carl Chavez
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: 3rd Quarter 2006 Groundwater Monitoring Results
DEFS Eldridge Ranch Study Area (AP#-33)
Unit P, Section 21, Township 19 South, Range 37 East
Lea County, New Mexico

Dear Mr. Chavez:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review, an electronic copy of the 3rd Quarter 2006 Groundwater Monitoring Results for the DEFS Eldridge Study Area located near Monument, New Mexico (Unit P, Section 21, Township 19 South, Range 37 East).

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@duke-energy.com .

Sincerely

Duke Energy Field Services, LP

Stephen Weathers, PG
Sr. Environmental Specialist

cc: Larry Johnson, OCD Hobbs District Office (Copy on CD)
Lynn Ward, DEFS Midland Office
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

December 22, 2006

Mr. Stephen Weathers
Duke Energy Field Services, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: **AP-33** Summary of Third Quarter 2006 Groundwater Monitoring Results for the DEFS Eldridge Ranch Study Area, Lea County, New Mexico (Unit P, Section 21, Township 19 South, Range 37 East)

Dear Steve:

This letter summarizes the activities completed and data generated during the third quarter 2006 groundwater-sampling episode at the Duke Energy Field Services (DEFS) Eldridge Ranch Study Area. The study area is located approximately 1 mile north and 0.75 miles east of the town of Monument in Lea County New Mexico (Figure 1). The OCD location descriptor is Unit P, Section 21, Township 19 South, Range 37 East. The coordinates for the area are 32 degrees 38.5 minutes north, 103 degrees 15.4 minutes east.

The former NMG-148C Study Area was combined with the Eldridge Ranch Study Area beginning with the first quarter of 2006. The areas were combined after establishing that the hydrocarbon plume originating from the NMG-148C study area had migrated into the Eldridge Ranch Study area before it attenuated. The combined sites will be treated as a single entity in all subsequent episodes.

Activities at the site are governed under Abatement Plan AP-33. DEFS submitted the Stage 1 Abatement Site Investigation Report (ASIR) on February 11, 2004 to the New Mexico Oil Conservation Division (OCD). In that report, DEFS committed to continuing two activities independent of the ASIR review timeframe. The two activities include groundwater monitoring and free phase hydrocarbon (FPH) removal when practicable. FPH recovery has been tried but is not viable because of the thin and relatively immobile nature of the zone. Groundwater monitoring has continued on a quarterly basis.

FIELD PROGRAM DESCRIPTION

The groundwater monitoring activities were completed on September 26 and September 27 2006. All activities were completed using the protocols included in the Sampling and Analysis Plan (SAP) that was prepared specifically for this project and approved by OCD.

The groundwater monitoring activities are divided into water table measurements, free phase hydrocarbon thickness measurements and groundwater sampling. The activities completed and data generated are summarized below.

Water Table Measurements

The fluid levels in all of the wells were measured prior to beginning the purging and sampling activities. Table 1 provides construction information for the wells. The well locations are shown on Figure 2. The corrected groundwater elevations that were measured during the September 2006 monitoring activities are shown on Table 2 along with the historical data. Approximate corrected water-table elevations for the wells containing FPH were estimated using the following formula:

GWE_{corr} = MGWE + (FPHT*PD): where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and PD is the FPH density (assumed at 0.72 based upon site-specific information).

Hydrographs for select wells with longer periods of record are included in Figure 3. The water table rose approximately 3 feet between June 2006 and September 2006 as a result of the heavy summer precipitation.

Water table contours based upon the corrected September 2006 data are shown in Figure 4. The contours were generated using the Surfer program with a kriging option and modified as necessary to better match the actual distribution. This figure is discussed in the below in the conclusions section.

The 6.57-foot head difference between MW-1 and MW-1D is substantially greater than than the historic measurements (Table 2). The head difference between the two wells has varied between 3.52 and 3.59 feet up until this event with one exception (3.92 feet in September 2004).

Free Phase Hydrocarbon Thickness Gauging

The FPH thickness measurements are summarized on Table 3. Thickness over time is plotted on Figure 5 for wells that currently contain FPH. MW-27 is the only well that has contained FPH since it was installed. The FPH thickness measured in September 2006 is the lowest measured to date. Wells MW-N and MW-LL are located near to MW-27, and their FPH thicknesses also declined substantially between June 2006 and September 2006 while the thickness increased in MW-CC. The FPH thickness in MW-EE, located to the north, continues to decline.

Groundwater Sampling

Representative groundwater samples were collected from 48 wells. The remaining wells either had FPH or are not included in the sampling part of the program (groundwater measurement only).

Field parameters were not collected because of instrument malfunctions; however, each well had a minimum of three casing volumes removed prior to sampling. Removal of this volume has resulted in the stabilization of the wells and the collection of representative samples during previous sampling events. Parameter measurement will resume during the subsequent monitoring efforts. All of the groundwater samples were analyzed for benzene, ethylbenzene, toluene and xylenes (BTEX). The BTEX results for the monitoring episode are summarized in Table 4. The laboratory reports are included in Attachment B.

The quality assurance analyses completed on the data are summarized in Table 5. The relative percentage difference (RPD) values for the three wells with duplicate samples are summarized in the upper part of Table 5. The results for all of the detected constituents are all acceptable. The matrix spike and matrix spike duplicate results were all also within their control limits. Based upon the above assessments, the data is suitable for the intended uses.

The measured concentrations and the calculated isopleths for benzene for September 2006 are shown on Figure 6 along with the wells that contained FPH. The isopleths were calculated using the Surfer program with a kriging option. The map will be discussed in the conclusions section below.

CONCLUSIONS

The interpretations and conclusions are grouped according to groundwater flow, product thickness and groundwater chemistry.

Groundwater Flow and Free Phase Hydrocarbon Thickness

Conclusions resulting from the September 2006 monitoring event related to groundwater flow include:

1. The groundwater flow beneath the northern half of the Eldridge study area is southward;

2. The groundwater flow then deflects toward the southeast in the southern half of the Eldridge study area;

3. The water table increased at a relatively uniform rate across the site to levels that approach or exceed the highest measured elevations (Figure 3).

4. The vertical gradient measured between the MW-1 and MW-01D increased substantially between June 2006 and September 2006.

Conclusions resulting from the September 2006 monitoring episode related to FPH include:

1. FPH remains in four wells in the west-central part of the study area. The FPH thickness decreased in three of the four wells.

2. FPH was also present to the north in MW-EE at 0.35 feet. The FPH continues to declined from a maximum thickness of 0.83 feet in September 2005.

3. FPH was not measured anywhere else within the study area. The FPH mobility appears to be limited based upon historic baildown/recovery tests and its failure to reappear in previously-affected wells to the south (Table 3).

Spatial Benzene Distribution

The benzene distribution depicted in Figure 6 has remained essentially unchanged over the duration of the project. The down-gradient eastern and southern boundaries of the study area are defined to the method report limits.

Temporal Benzene Distribution

The benzene-time graphs for wells in various parts of the study area were updated and evaluated for indications of dissolved-phase benzene plume expansion or contraction. The evaluation begins with the northernmost NMG-148C plume and moves south. The historic data used to generate these plots are attached along with the compiled toluene, ethylbenzene and combined xylenes data.

Time-benzene plots for the down-gradient NMG wells are shown on Figure 7. All wells with the exception of MW-8 either remained stable or decreased substantially. MW-8 is located well up-gradient from the property boundary. This pattern indicates that the areal extent of the dissolved-phase plume associated with the NMG release is not expanding.

Figure 8 graphs the benzene-time relationship for six wells in the central part of the Eldridge Study Area Property. All of the wells except MW-E remained constant or decreased slightly. The concentration in MW-E increased substantially. MW-E is located in an area where groundwater flow is generally deflected from the southeast to the south following an episode of heavy precipitation, and this increase might be a result of that phenomena. There is no evidence of plume expansion into the unaffected down-gradient areas.

Finally, the benzene-time concentrations for the wells that are located in the southern part of the study area are shown on Figure 9. The benzene concentrations in all of these wells declined between June 2006 and September 2006. The concentration in the former house well declined to a concentration of 0.00112 that approaches the method reporting limit. The relationships in the southern wells indicate that natural attenuation is stabilizing and removing hydrocarbons as they migrate away from the source areas. There is no evidence of plume expansion.

RECOMMENDATIONS

AEC recommends that the fourth quarter monitoring be completed and the data reviewed to evaluate the changes in the groundwater flow patterns in the south-central part of the study area on the hydrocarbons.

Thank you for allowing AEC to complete this work. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, PE, CPG
Principal Engineer

MHS/tbm

Attachments

TABLES

Table 1 – Monitoring Well Information

Well	Date Installed	Total Well Depth	Screen Interval	Sand Interval
MW-1	8/01	28.0	11.8-26.8	9.8-27
MW-1D	12/02	48.0	34-44	33-48
MW-2	8/01	28.0	11.7-26.7	8.7-27
MW-3	8/01	30.0	13.4-28.4	10.4-29
MW-4	8/01	30.0	13.2-28.2	10.2-29
MW-5	8/01	27.0	10.2-25.2	7.2-26
MW-6	8/01	30.0	13.5-28.5	10.5-29.0
MW-7	8/01	35.0	18.6-33.6	15.6-34
MW-8	3/02	30.0	15.0-30.0	12-30
MW-9	3/02	27.0	11.4-26.4	8.4-27
MW-10	3/02	31.0	15.2-30.2	12-31
MW-11	3/02	30.4	15.3-30.3	12-30.4
MW-12	3/02	34.0	18-33	15-34
MW-13	3/02	36.0	18.11-33.11	16-36
MW-14	3/02	32.0	16.11-31.11	14-32
MW-15	9/02	35.5	20-35	18-35.5
MW-16	9/02	25.0	9.5-24.5	9-24.5
MW-17	9/02	25.0	9.5-24.5	9-24.5
MW-18	9/02	32.0	16.5-31.5	15-32
MW-19	9/02	30.0	7-27	6-30
MW-20	9/02	32.0	16.5-31.5	15-32
MW-21	9/02	35.0	19.5-34.5	18-35
MW-22	9/02	36.0	17-32	15-36
MW-23	9/02	30.0	14.5-29.5	11-30
MW-24	12/02	35.0	19-34	17-34
MW-25	2/03	37.0	17-37	15-37
MW-26	2/03	35.0	15-35	13-35
MW-27	2/03	37.0	17-37	15-37
MW-28	3/06	30	15-30	13-30
MW-29	3/06	33	18-33	16-33
MW-30	3/06	30	15-30	13-30
MW-31	3/06	27	12-27	10.5-27

All units in feet
Minimum of 2 feet of pelletized bentonite on top of all sand packs.
Wells that were plugged and abandoned in November 2005 were deleted from this table

Table 1 – Monitoring Well Information (continued)

Well	Date Installed	Total Depth	Screened Interval	Sand Interval
MW-A	11/03	26.5	11-26	8-26.5
MW-E	11/03	31	15-30	13-31
MW-F	11/03	26	9-24	6-24
MW-I	11/03	36.5	19-34	17-36.5
MW-J	11/03	27.5	12-27	9-27.5
MW-M	11/03	38.5	23-38	21-38
MW-N	11/03	36.5	21-36	19-36.5
MW-O	11/03	36.5	21-36	19-36.5
MW-Q	11/03	36	19-34	16-36
MW-S	11/03	28.5	13-28	10-28.5
MW-CC	11/03	36.5	21-36	19-36.5
MW-EE	11/03	33.5	18-33	16-33.5
MW-LL	11/03	37.5	22-37	20-37.5
MW-MM	11/03	36	19-34	16-36
NMG MW2	12/16/02	35	20-35	18-35
NMG MW3	2/5/03	37	17-37	15-37
NMG MW4	2/5/03	37	17-37	15-37
NMG MW5	12/15/04	35	20-35	11-20
NMG MW6	4/17/05	35	15-35	12-35
NMG MW7	4/17/05	35	15-35	12-35
NMG MW8	4/17/05	35	15-35	12-35
NMG MW9	4/14/05	35	20-35	18-35
NMG MW10	11/10/05	30	15-30	12-30
NMG MW11	11/10/05	30	15-30	12-30
NMG MW12	11/10/05	30	15-30	12-30
NMG MW13	11/10/05	30	15-30	12-30
House Well	?	25	?	?
Irrigation Well	?	44.5	?	?

All units in feet
?: no information available
Minimum of 2 feet of pelletized bentonite on top of all sand packs.
Wells that were plugged and abandoned in November 2005 were deleted from this table

Table 2 - Groundwater Elevations Corrected for Free Product When Present

Well	8/9/01	3/3/02	7/18/02	10/10/02	2/22/03	6/5/03	9/24/03	12/9/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04	3/21/05	6/27/05	9/30/05	12/20/05
MW-1	3602.20	3599.02	3598.68	3598.55	3598.68	3598.59	3598.36	3598.48	3598.47	3598.46	3599.07	3598.59	3604.27	3602.52	3601.37	3601.11	3600.65
MW 1D					3595.12	3595.03	3594.81	3594.90	3594.92	3594.91	3595.52	3594.67	3600.74	3599.00	3597.83	3597.52	3597.10
MW-2	3601.63	3599.33	3598.95	3598.81	3598.99	3598.88	3598.66	NM	3598.75	3598.73	3599.34	3598.88	3604.24	3602.67	3601.62	3601.34	3600.94
MW-3	3601.67	3601.67	3599.11	3598.96	3599.09	3599.01	3598.80	3598.89	3598.89	3598.88	3599.48	3599.01	3604.73	3603.00	3601.84	3603.55	3601.07
MW-4	3602.16	3599.81	3599.34	3599.17	3599.30	3599.24	3599.01	3599.05	3599.07	3599.08	3599.67	3599.17	3605.75	3604.21	3602.93	3602.31	3601.61
MW-5	3602.98	3600.48	3600.09	3599.93	3600.20	3600.03	3599.75	3599.91	3599.92	3599.94	3600.50	3599.85	3606.56	3604.37	3603.08	3602.78	3602.30
MW-6	3606.44	3603.99	3603.42	3603.22	3603.27	3603.21	3603.01	3602.99	3602.99	3602.98	3603.60	3603.12	3608.71	3607.73	3607.05	3606.68	3606.05
MW-7	3606.47	3604.02	3603.46	3603.31	3603.30	3603.25	3603.10	3603.05	3603.05	3603.01	3603.50	3603.17	3606.33	3607.13	3606.66	3606.39	3605.98
MW-8		3605.22	3602.50	3602.33	3602.34	3602.25	3602.00	3602.00	3602.13	3601.98	3619.49	3602.12	3608.29	3607.10	3606.24	3605.93	3605.27
MW-9		3604.78	3601.14	3600.91	3601.05	3600.91	3600.62	3600.66	3600.66	3600.67	3601.43	3600.74	3608.59	3606.24	3605.11	3604.77	3604.30
MW-10		3606.67	3603.96	3603.76	3603.74	3603.67	3603.41	3603.39	3603.38	3603.36	3604.15	3603.55	3609.15	3608.08	3607.48	3607.29	3606.97
MW-11		3606.16	3603.64	3602.47	3603.39	3603.32	3603.04	3603.07	3603.04	3603.00	3620.96	3603.22	3608.39	3607.68	3607.06	3606.87	3606.42
MW-12		3607.44	3604.87	3604.69	3604.60	3604.54	3604.36	3604.32	3604.27	3604.23	3604.89	3604.44	3608.74	3608.52	3608.07	3607.95	3607.65
MW-13		3608.80	3605.01	3604.79	3604.79	3604.70	3604.43	3604.40	3604.39	3604.37	3605.24	3605.58	3611.18	3609.94	3609.16	3608.92	3608.47
MW-14		3608.66	3606.04	3605.85	3605.81	3605.74	3605.51	3605.47	3605.45	3605.43	3606.23	3605.67	3611.79	3610.76	3609.97	3609.65	3609.14
MW-15				3608.42	3608.43	3608.43	3608.41	3608.41	3608.40	3608.38	3608.50	3608.44	3612.56	3611.89	3611.16	3610.76	3610.34
MW-16				3592.88	3593.10	3592.88	3592.87	NM	3592.82	3592.84	3593.38	3592.80	3599.29	3597.48	3596.30	3595.94	3595.31
MW-17				3592.92	3593.17	3592.98	3592.72	NM	3592.89	3592.92	3593.32	3592.79	3598.09	3596.63	3595.64	3595.40	3594.95
MW-18				3600.19	3600.42	3600.24	3599.91	3600.04	3600.06	3600.08	3600.75	3600.04	3608.31	3605.89	3604.61	3604.28	3603.66
MW-19				3599.70	3600.05	3599.78	3599.45	3599.64	3599.67	3599.70	3600.31	3599.54	3608.59	3605.42	3604.04	3603.66	3603.16
MW-20				3605.44	3605.32	3605.26	3605.14	3605.09	3605.04	3604.99	3605.41	3605.13	3607.53	3608.64	3608.40	3608.35	3608.10
MW-21				3606.29	3606.26	3606.22	3606.06	3606.04	3606.02	3606.00	3606.70	3606.26	3612.20	3611.41	3610.68	3610.35	3609.88
MW-22				3605.80	3605.81	3605.73	3605.45	3605.44	3605.43	3605.41	3606.22	3605.63	3612.25	3610.82	3609.96	3609.61	3609.19
MW-23				3607.55	3607.50	3607.46	3607.26	3607.24	3607.21	3607.19	3607.82	3606.41	3612.30	3611.56	3610.86	3610.48	3610.03
MW-24					3587.76	3587.66	3587.47	NM	3587.56	3587.56	3588.04	3587.63	3591.98	3590.90	3590.27	3590.03	3589.56
MW-25					3611.96	3611.94	3611.89	3611.86	3611.84	3611.81	3612.12	3611.97	3614.74	3614.78	3614.21	3613.85	3613.45
MW-26					3609.37	3609.36	3609.20	3609.18	3609.14	3609.13	3609.62	3609.35	3613.57	3613.19	3612.51	3612.15	3611.72
MW-27					3606.23	3606.17	3605.86	3606.09	3605.85	3605.81	3606.67	3606.04	3612.69	3611.43	3610.66	3610.44	3609.96

Notes: 1)All units in feet, 2) NM: well not gauged; 3) blank cell: well not installed at time of sampling.

Table 2 - (Continued)

Well	3/13/06	6/19/06	9/26/06
MW-1	3600.48	3600.25	3603.67
MW 1D	3596.94	3596.68	3597.10
MW-2	3600.76	3600.56	3603.64
MW-3	3600.89	3600.66	3604.12
MW-4	3601.46	3601.09	3604.94
MW-5	3602.14	3601.75	3605.18
MW-6	3605.78	3605.44	3608.19
MW-7	3605.73	3605.48	3607.37
MW-8	3605.14	3604.86	3607.57
MW-9	3604.07	3603.62	3606.52
MW-10	3606.78	3606.50	3608.52
MW-11	3606.33	3606.08	3608.10
MW-12	3607.51	3607.30	3608.89
MW-13	3608.25	3607.88	NM
MW-14	3608.94	3608.61	3611.14
MW-15	3610.12	3609.86	3612.10
MW-16	3595.09	3594.68	3598.15
MW-17	3594.79	3594.42	3597.01
MW-18	3603.43	3602.93	3606.40
MW-19	3602.91	3602.29	3605.78
MW-20	3607.97	3607.78	3608.75
MW-21	3609.63	3609.35	3611.76
MW-22	3608.94	3608.58	3611.13
MW-23	3609.8	3609.50	3611.78
MW-24	3589.34	3589.11	3591.39
MW-25	3613.29	3613.09	3614.71
MW-26	3611.50	3611.23	3613.36
MW-27	3609.74	3609.37	3611.84
MW-28	3611.56	3611.17	3613.64
MW-29	3610.05	3609.81	3612.08
MW-30	3608.94	3608.56	3611.05
MW-31	3607.26	3606.82	3609.69

Notes: 1)All units in feet, 2) NM: well not gauged; 3) blank cell: well not installed at time of sampling.

Table 2 - Groundwater Elevations Corrected for Free Product When Present (continued)

Well	12/9/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04	3/21/05	6/27/05	9/30/05	12/20/05	3/13/06	6/19/06	9/26/06
MW-A	3594.96	3594.95	3594.94	3595.55	3595.06	3600.83	3599.07	3597.04	3596.77	3598.00	3595.18	3596.60	3600.08
MW-E	3598.83	3598.84	3598.85	3599.44	3598.79	3605.89	3603.43	3602.31	3602.08	3601.50	3601.36	3600.91	3604.15
MW-F	3598.96	3598.99	3599.02	3599.58	3598.83	3606.67	3603.78	3600.55	3600.23	3602.16	3599.71	3601.43	3604.67
MW-I	3602.15	3602.17	3602.16	3602.89	3602.27	3608.89	3607.51	3606.61	3606.33	3605.77	3605.52	3605.09	3608.00
MW-J	3601.61	3601.67	3601.63	3602.34	3601.65	3609.62	3607.73	3606.57	3606.10	3605.49	3605.16	3604.60	3608.27
MW-M	3605.18	3605.16	3605.12	3605.92	3605.36	3611.15	3610.24	3609.66	3609.39	3608.95	3608.79	3608.20	3610.85
MW-N	3605.11	3605.10	3605.05	3605.93	3605.29	3611.89	3610.67	3609.89	3609.65	3609.19	3608.96	3608.59	3611.06
MW-O	3605.10	3605.08	3605.06	3605.92	3605.28	3611.87	3610.65	3609.85	3609.62	3609.16	3608.94	3608.58	3611.03
MW-Q	3606.03	3606.01	3605.99	3606.84	3606.19	3612.82	3611.46	3610.67	3610.45	3610.03	3609.82	3609.45	3611.88
MW-S	3604.92	3604.91	3604.90	3605.73	3605.08	3611.91	3610.27	3609.42	3609.19	3608.79	3607.74	3607.35	3609.79
MW-CC	3605.16	3605.14	3605.09	3605.98	3605.337	3611.95	3610.71	3610.44	3609.71	3609.24	3610.03	3608.65	3611.61
MW-EE	3607.61	3607.59	3607.54	3608.18	3607.83	3612.61	3611.87	3611.10	3610.76	3610.30	3610.08	3609.78	3612.09
MW-LL	3605.10	3605.08	3605.05	3605.92	3605.27	3611.87	3610.69	3609.91	3609.67	3609.21	3608.99	3608.61	3611.04
MW-MM	3606.65	3606.62	3606.60	3607.35	3606.85	3612.49	3611.65	3610.98	3610.60	3610.12	3608.91	3608.61	3612.09
NMG MW2	3616.89	3616.84	3618.06	3617.25	3621.74	3621.27	3620.90	3620.42	3619.98	3619.98	3619.69	3619.34	3621.18
NMG MW3	3619.94	3619.89	3620.43	3620.09	3623.70	3623.41	3622.92	3622.29	3621.88	3621.88	3621.60	3621.34	3622.82
NMG MW4	3615.57	3615.52	3616.34	3615.86	3618.78	3619.40	3619.11	3618.75	3618.42	3618.42	3618.16	3617.85	3617.15
NMG MW5						NM	3620.44	3619.82	3619.36	3619.36	3619.07	3618.69	3620.56
NMG MW6						3620.44	3619.85	3619.17	3618.68	3618.68	3618.37	3617.94	3620.12
NMG MW7						3619.27	3618.71	3617.99	3617.46	3617.46	3617.13	3616.71	3619.16
NMG MW8						3619.91	3619.35	3618.70	3618.25	3618.25	3617.95	3617.55	3619.71
NMG MW9						3618.95	3618.30	3617.59	3617.01	3617.01	3616.66	3616.22	3618.78
NMG MW10									3617.13	3617.13	3616.79	3616.35	3618.87
NMG MW11									3616.49	3616.49	3616.20	3615.74	3618.39
NMG MW12									3614.71	3614.71	3614.34	3613.85	3616.52
NMG MW13									3614.53	3614.53	3614.22	3613.74	3616.31

Notes: All units in feet
NM: well not gauged
Blank cell: well not installed at time of sampling.
See text for discussion of corrections for free phase hydrocarbons
Wells that were plugged and abandoned in November 2005 were deleted from this table

Table 3 – Measured Free Phase Hydrocarbon Thicknesses

Well	10/10/02	2/22/03	6/04/03	9/24/03	12/09/03	1/12/04	3/22/04	6/21/04	9/20/04	12/10/04	3/21/05	6/27/05	9/30/05	12/20/05	3/13/06	6/19/06	9/26/06
MW-8	0.00	0.00	0.30	0.47	0.50	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-11	0.01	1.35	1.36	1.33	1.40	1.41	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-18	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-23	0.58	0.57	0.59	0.56	0.52	0.54	0.41	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-26		0.71	0.84	0.21	0.05	0.02	0.02	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
MW-27		1.25	1.26	1.18	0.37	1.16	1.11	1.09	1.08	0.72	0.86	1.00	0.81	0.92	1.05	1.03	0.06
MW-N					1.10	1.10	1.09	0.99	1.00	0.00	0.82	1.80	0.00	0.00	0.49	0.60	0.28
MW-CC					1.20	1.20	1.20	1.10	1.13	0.00	0.00	0.00	0.98	0.96	0.01	0.01	0.52
MW-EE					0.27	0.26	0.21	0.14	0.03	0.00	0.00	0.44	0.83	0.55	0.46	0.35	0.11
MW-LL					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.92	0.00	0.79	0.22

Notes: All units are feet.
Blank cell: well not installed at time of sampling.

Table 4 – Summary of September 2006 BTEX Analyses

Well	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-1	0.114	0.0111	0.0571	0.00949	0.0953
MW-01 D	0.595	0.00838	0.0739	<0.001	0.0524
MW-4	0.159	0.693	0.158	0.122	0.476
MW-5	0.0178	0.00217	0.00273	0.00195	0.00296
MW-5 Dup A	0.0173	0.00179	0.00269	0.00192	0.00292
MW-6	0.0272	0.0026	0.00772	0.000529	0.0464
MW-8	0.173	0.0137	0.0067	0.00332	0.0201
MW-9	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	0.0768	<0.005	0.00224	<0.005	0.00313
MW-11	4.74	0.0702	<0.1	<0.1	<0.1
MW-12	18.7	0.19	0.146	0.0363	0.126
MW-14	0.00728	0.00149	<0.001	<0.001	<0.001
MW-16	<0.001	<0.001	<0.001	<0.001	<0.001
MW-17	<0.001	<0.001	<0.001	<0.001	<0.001
MW-18	0.0195	0.00463	0.00932	0.00297	0.0113
MW-19	<0.001	<0.001	<0.001	<0.001	<0.001
MW-22	<0.001	<0.001	<0.001	<0.001	<0.001
MW-23	0.383	0.0646	0.117	0.00534	0.176
MW-24	<0.001	<0.001	<0.001	<0.001	<0.001
MW-25	<0.001	<0.001	<0.001	<0.001	<0.001
MW-26	77.2	24.9	0.309	0.155	0.804
MW-28	<0.001	<0.001	<0.001	<0.001	<0.001
MW-29	0.0332	0.000321	<0.001	<0.001	<0.001
MW-30	<0.001	<0.001	<0.001	<0.001	<0.001
MW-31	<0.001	<0.001	<0.001	<0.001	<0.001

Notes: All units mg/l
FPH: Free phase hydrocarbons present no groundwater sample collected

Table 4 – Summary of September 2006 BTEX Analyses (continued)

Well	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-A	0.0473	0.0389	0.0249	0.019	0.0604
MW-E	0.171	0.00369	0.0133	0.00544	0.0254
MW-F	<0.001	<0.001	<0.001	<0.001	<0.001
MW-I	0.0121	0.00375	0.00168	0.000478	0.00383
MW-J	0.000522	<0.001	<0.001	<0.001	<0.001
MW-M	19.5	8.35	0.242	0.114	0.413
MW-O	12.4	<0.1	0.131	<0.1	0.104
MW-Q	2.2	0.0244	0.0646	<0.01	0.0397
MW-Q Dup B	2.46	0.0223	0.0724	<0.01	0.0426
MW-S	<0.001	<0.001	<0.001	<0.001	<0.001
MW-MM	0.464	0.0024	0.0421	<0.005	0.0271
House	0.00112	<0.001	<0.001	<0.001	<0.001
Irrigation	0.055	0.0299	0.0313	0.0116	0.0701
NMGMW-2	<0.001	<0.001	<0.001	<0.001	<0.001
NMGMW-3	<0.001	<0.001	<0.001	<0.001	<0.001
NMGMW-4	<0.001	<0.001	<0.001	<0.001	<0.001
NMGMW-5	10.2	<0.1	<0.1	<0.1	<0.1
NMGMW-5 Dup N	11	<0.02	<0.02	<0.02	0.0902
NMGMW-6	2.48	<0.1	0.0555	<0.1	<0.1
NMGMW-7	0.0107	0.00418	0.00443	0.000564	0.00755
NMGMW-8	0.675	0.00739	0.0663	0.00284	0.0122
NMGMW-9	0.014	<0.005	<0.005	<0.005	<0.005
NMGMW-10	0.361	0.012	0.0716	0.0382	0.172
NMGMW-11	<0.005	<0.005	<0.005	<0.005	<0.005
NMGMW-12	0.25	0.00433	0.0249	0.000478	0.00131
NMGMW-13	<0.001	<0.001	<0.001	<0.001	<0.001

Notes: All units mg/l
FPH: Free phase hydrocarbons present no groundwater sample collected

Table 5 – September 2006 Quality Assurance Evaluation

Duplicate Sample Evaluation Relative Percentage Difference

Sample	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-5	2.85%	19.19%	1.48%	1.36%	1.55%
MW-Q	-11.16%	8.99%	-11.39%	-7.05%	NA
NMG MW5	-0.07547	NA	NA	NA	NA

NA: Test not applicable because the sample results were below the method reporting limit

Matrix Spike Results

Sample	Benzene	Toluene	Ethylbenzene	p/m Xylenes	o Xylenes
MW-24	102	88.8	102	90.3	83.4
	97.2	89.2	104	92.6	88.8
MW-28	104	91.0	86.6	84.6	84.8
	91.6	80.4	86.2	80.8	81.8
Trip Blank	93.2	84.6	80.0	83.8	81.6
	104	92.4	88.8	87.9	88.4

Percent recovery limits are 80% to 120%

FIGURES

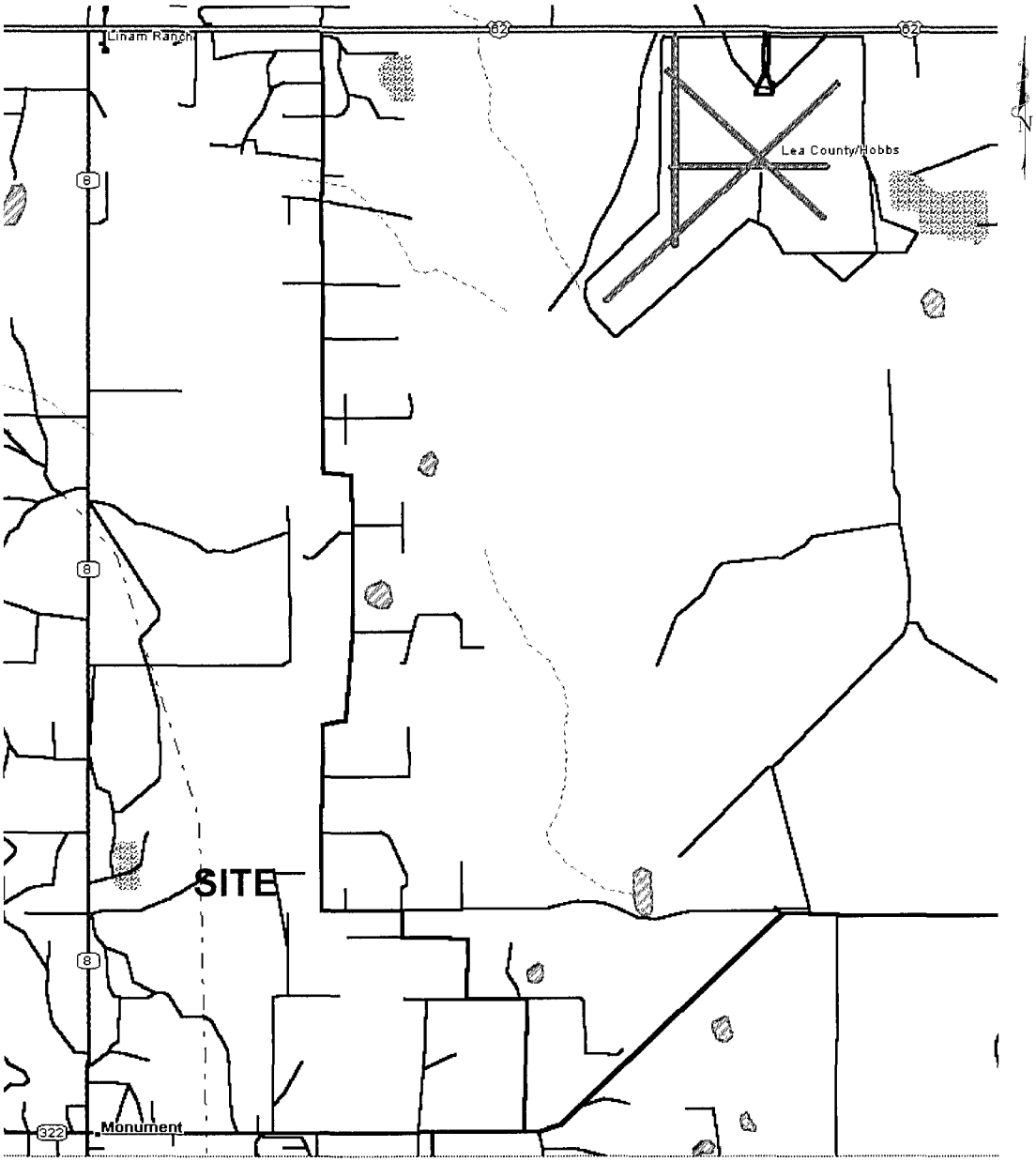
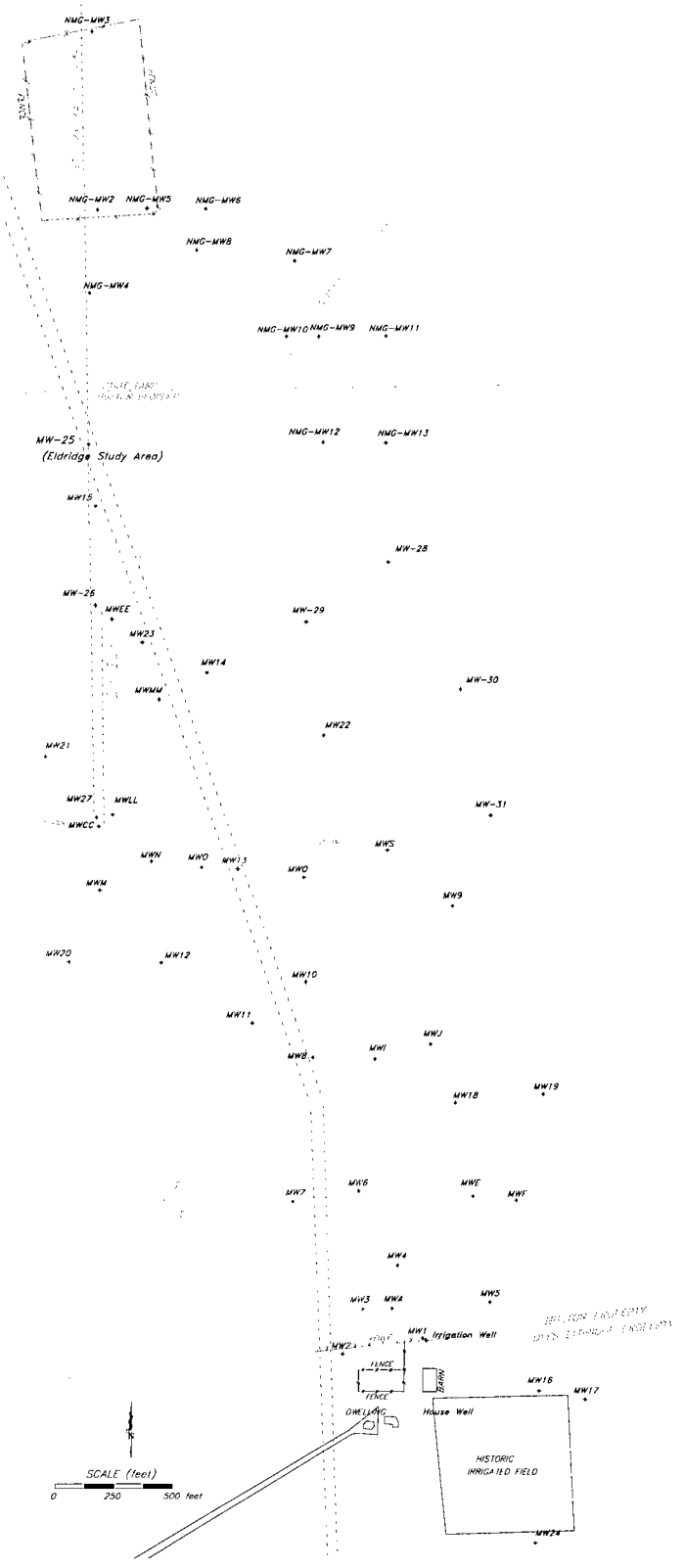


Figure 1 – Site Location Map
DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS
REVISED:
DATE: 10/02



Note:
Wells shown in blue are used for fluid measurement only

Figure 2 - Monitoring Well and Pipeline Locations

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 5/06

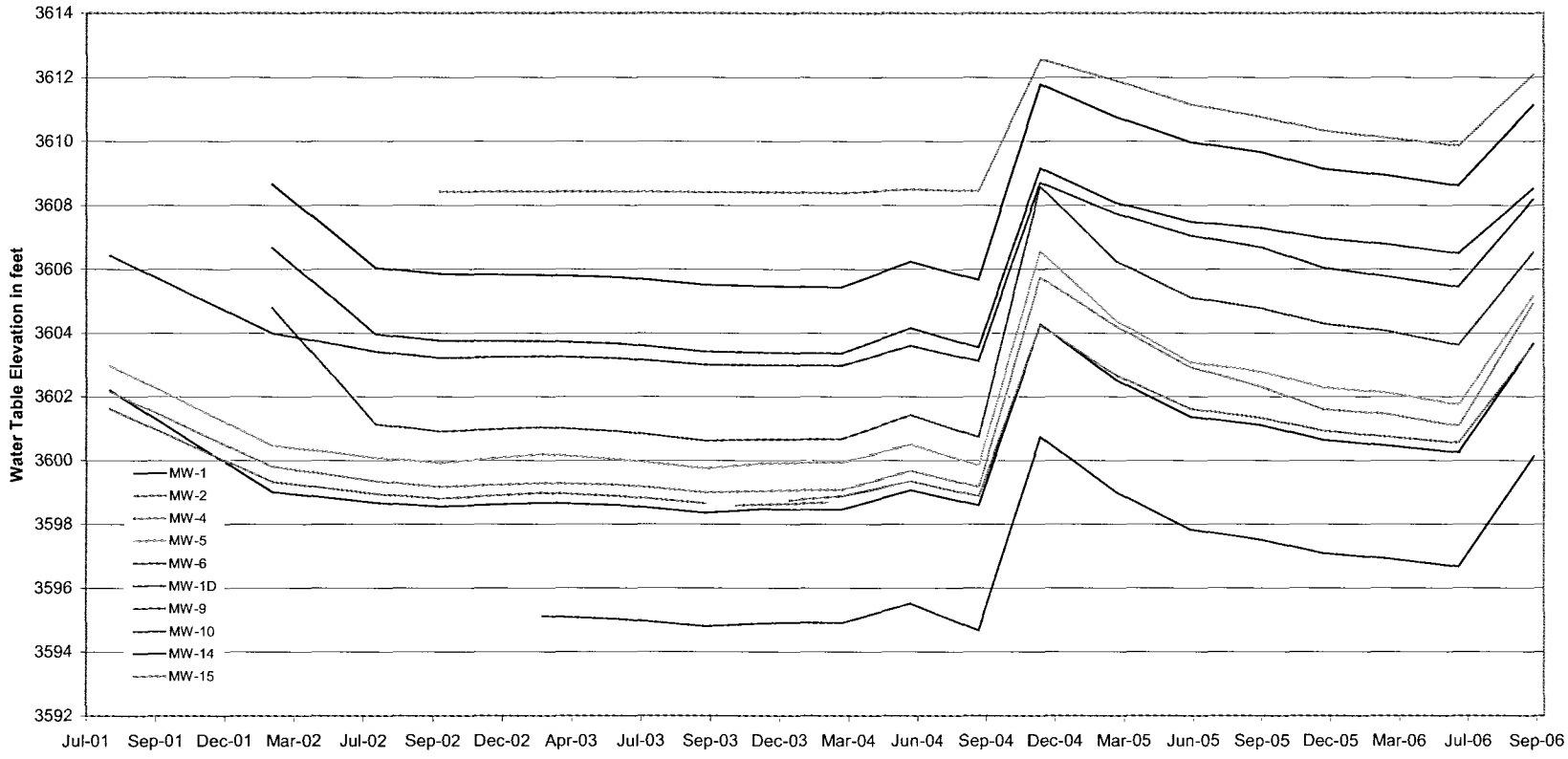


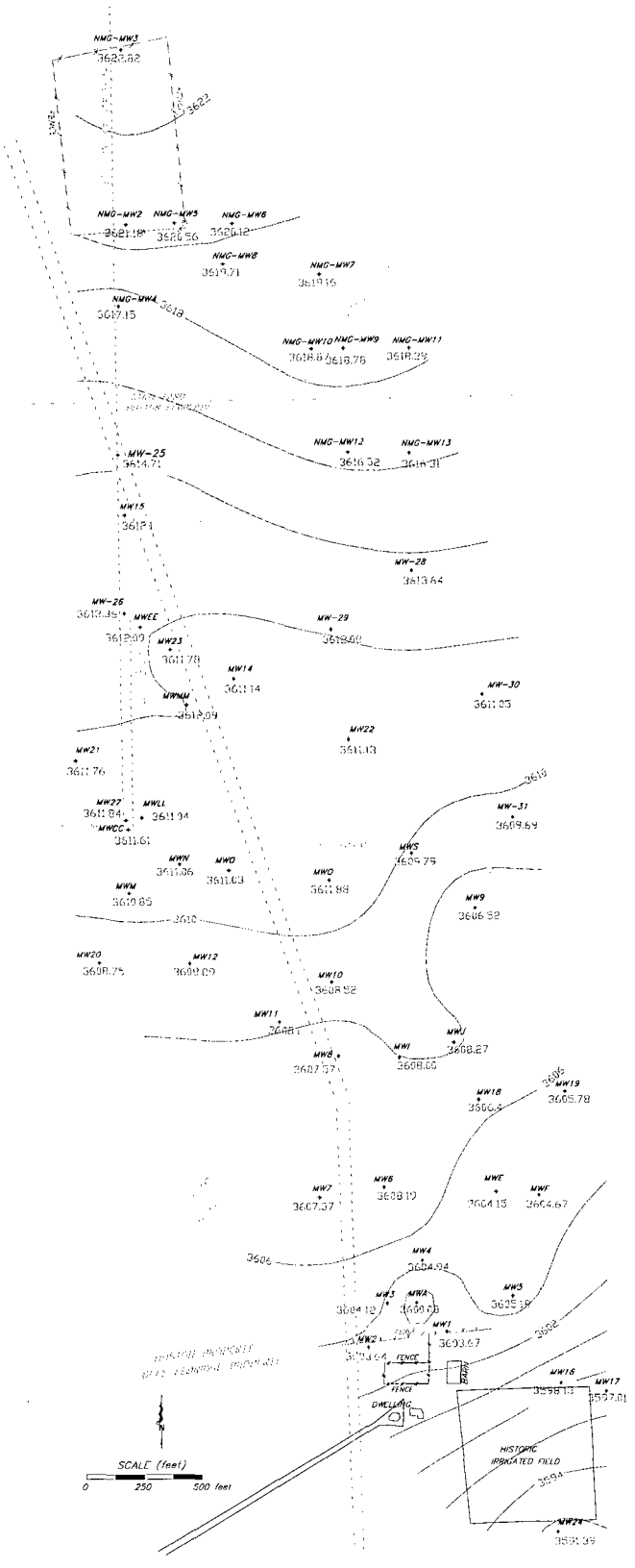
Figure 3- Hydrographs for Wells with Longer Periods of Record

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06



Contour interval is 2 feet

Figure 4 – September 2006 Water Table Contours

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 12/06

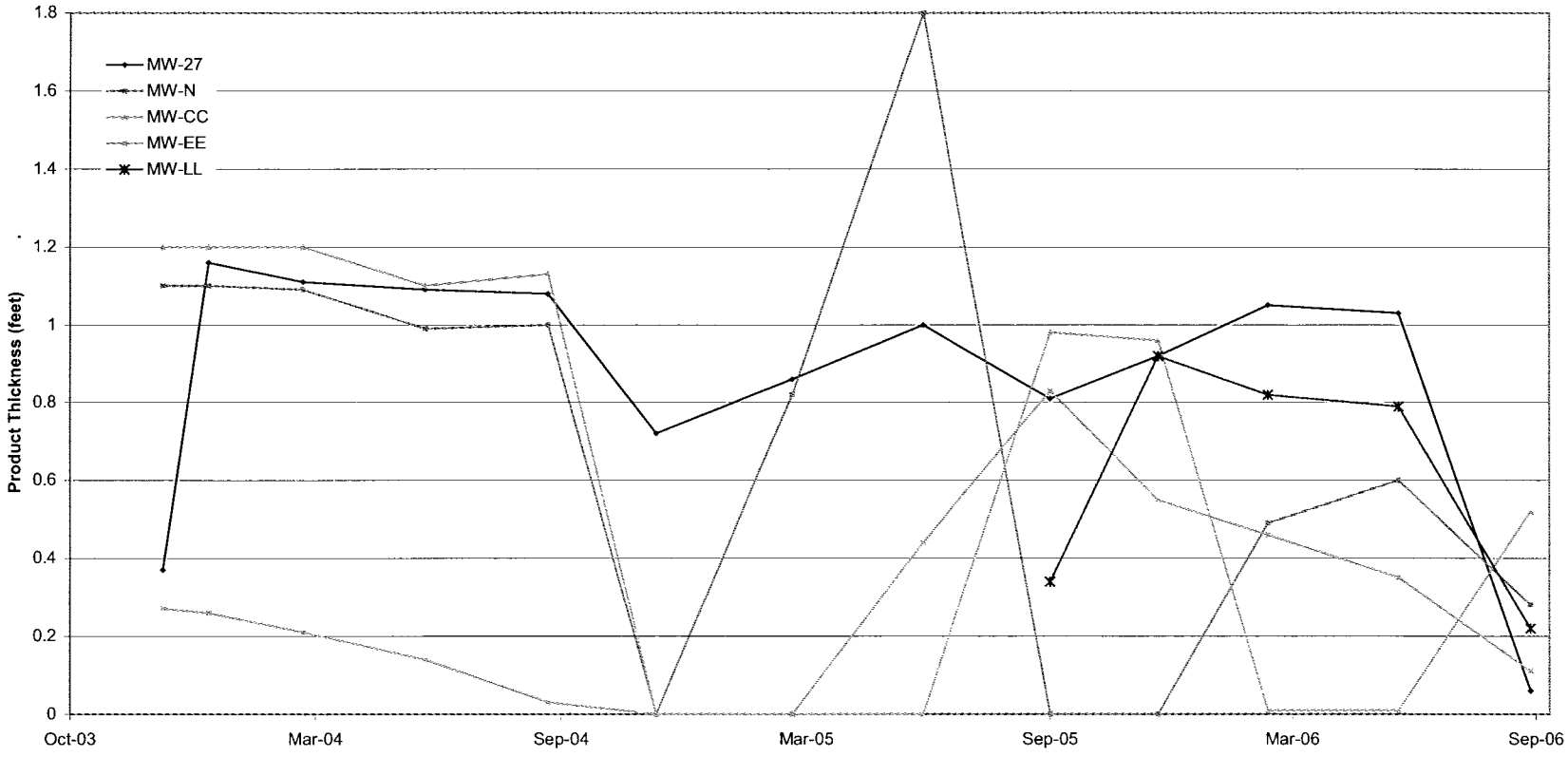


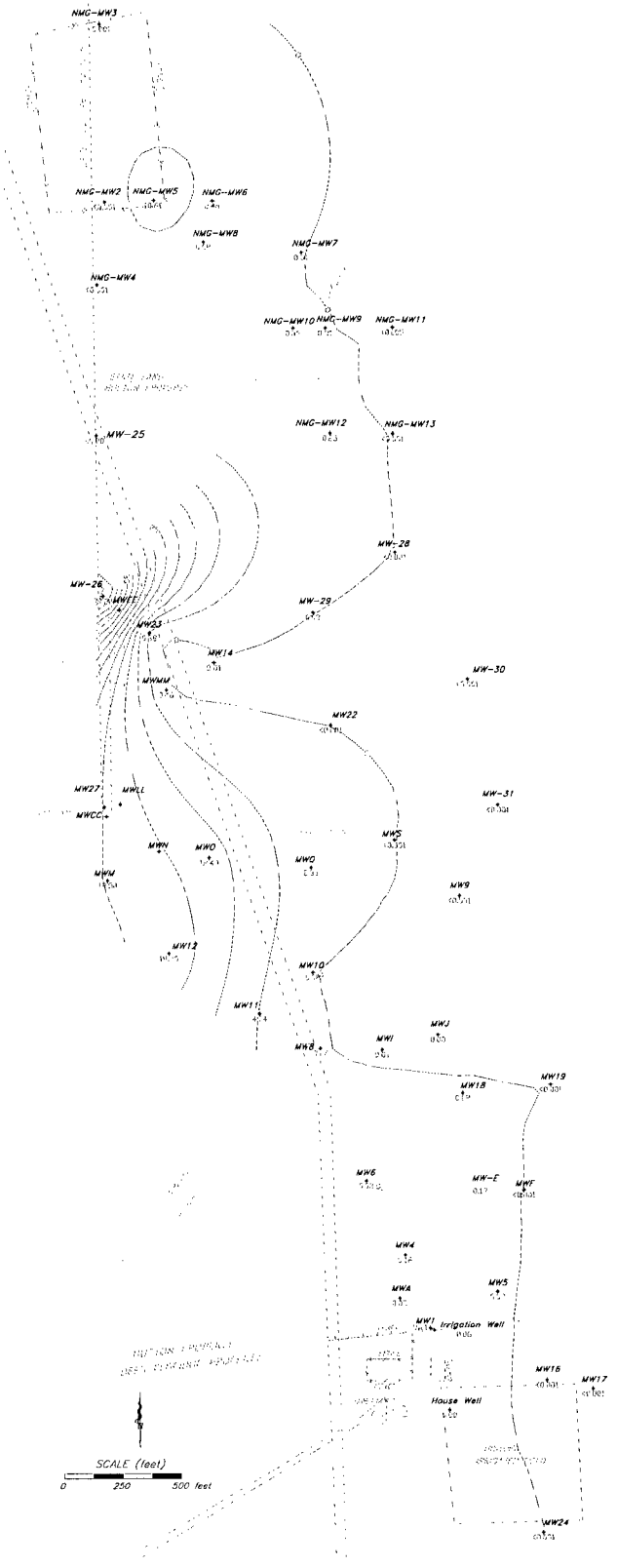
Figure 5 – Free Phase Hydrocarbon Thickness

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06



NOTES

1) Contour interval is 5 mg/l
2) Wells containing free phase hydrocarbons are denoted as FPH and were not sampled
3) Values highlighted in green were reported as below the method reporting limit. The reported limit is twice the value shown that was used to generate the contour map.
4) Duplicate values were averaged together

Figure 6 – September 2006 Benzene Isopleths

DEFS Eldridge Study Area

Duke Energy Field Services.

DRAWN BY: MHS

DATE: 9/06

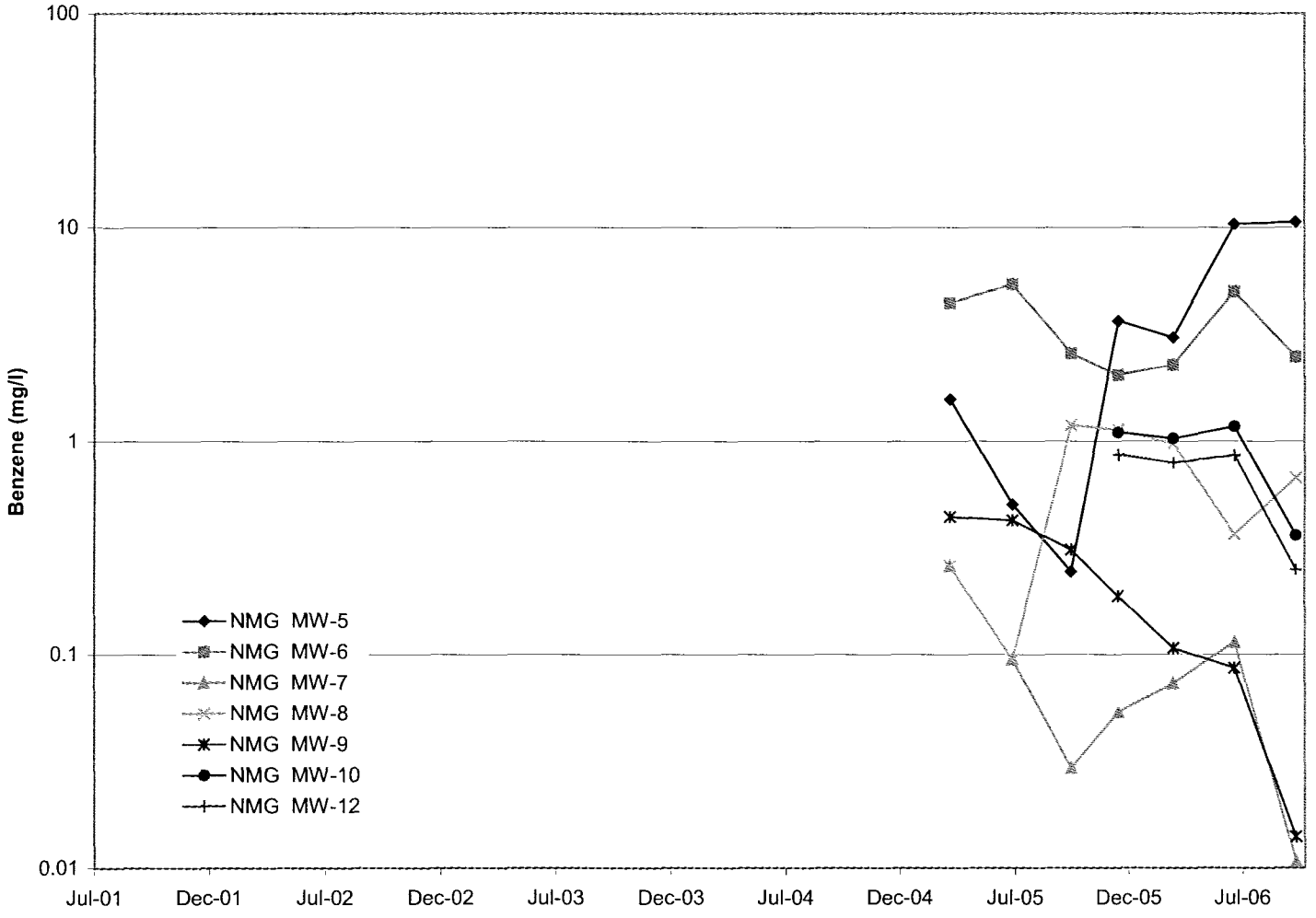


Figure 7 - Concentration-Time Graphs for Wells from the NMG-148c Source

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06

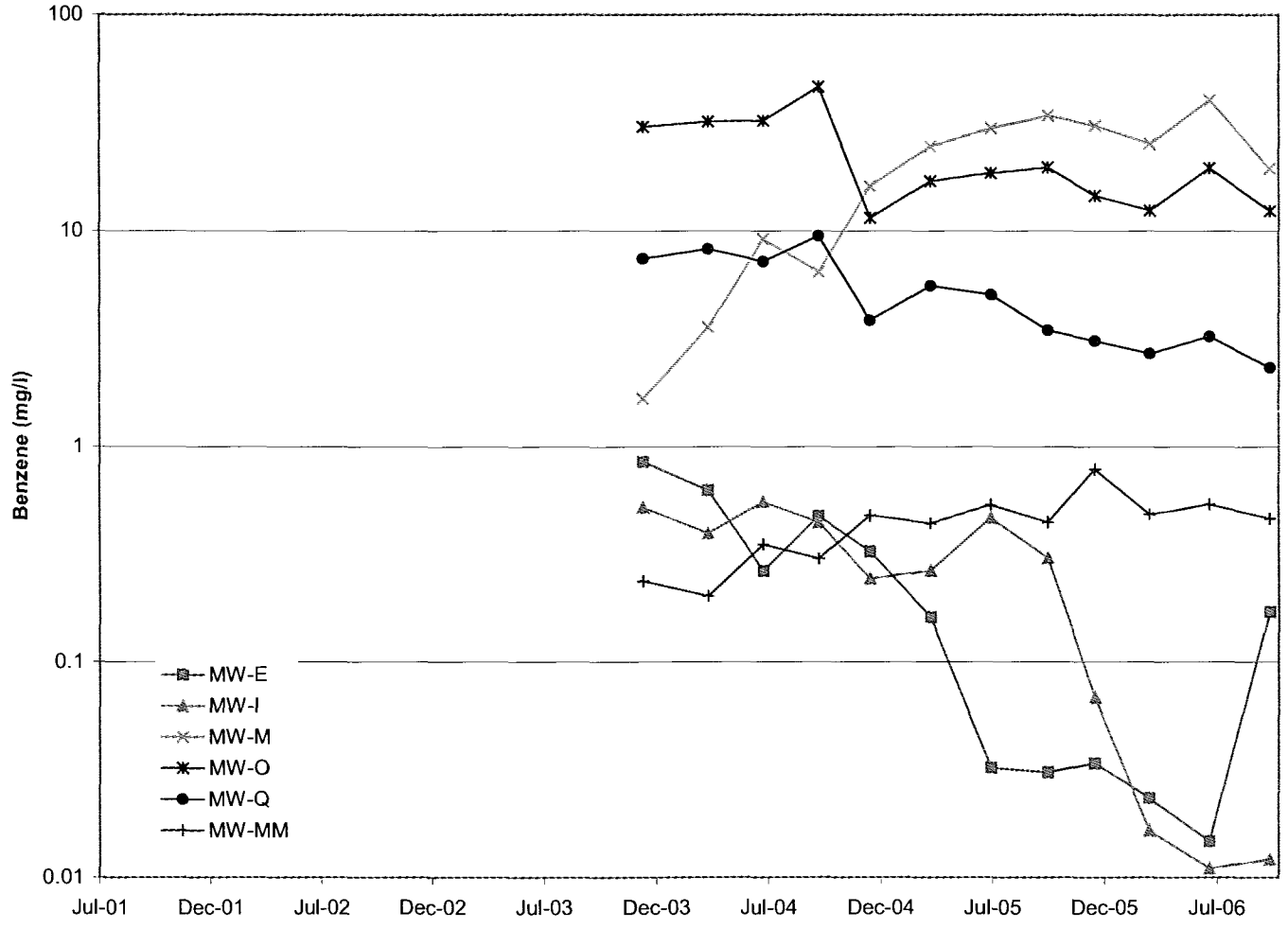


Figure 8 - Concentration-Time Graphs for the Central Area.

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06

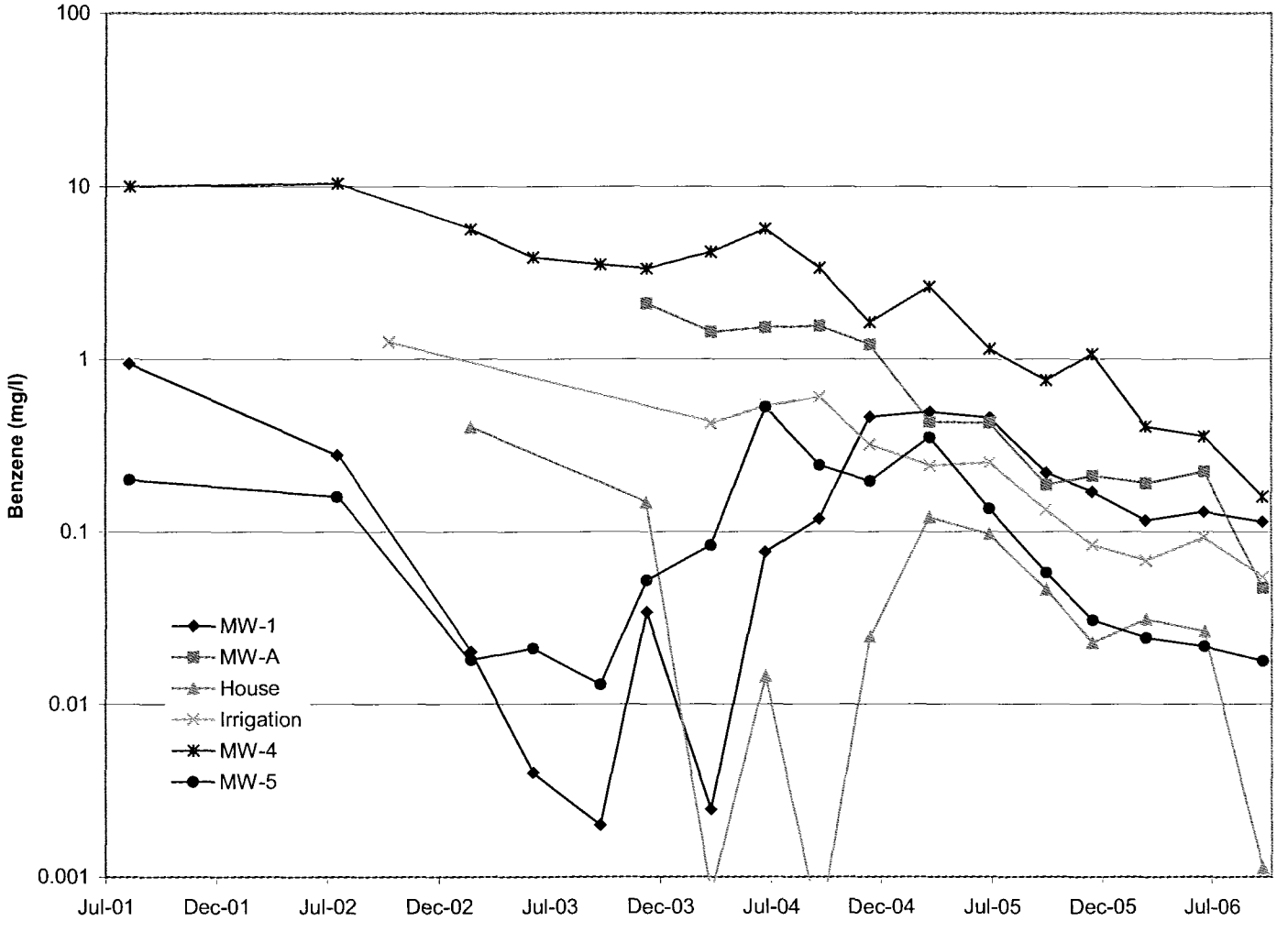


Figure 9 - Concentration-Time Graphs for Wells Within or North of the DEFS Eldridge Property

DEFS Eldridge Study Area

Duke Energy Field Services

DRAWN BY: MHS

DATE: 12/06

ATTACHMENT

ANALYTICAL LABORATORY REPORT

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Michael Stewart

American Envionmental Consultants

6885 South Marshall St., Ste. 3

Littleton, CO 80128

Project: DEFS-DEFS (Eldridge) Ranch

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 6J02008

Report Date: 10/12/06

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NMGMW-2	6J02008-01	Water	09/26/06 09:15	10-02-2006 10:40
NMGMW-3	6J02008-02	Water	09/26/06 16:50	10-02-2006 10:40
NMGMW-4	6J02008-03	Water	09/26/06 09:10	10-02-2006 10:40
NMGMW-5	6J02008-04	Water	09/26/06 09:00	10-02-2006 10:40
NMGMW-6	6J02008-05	Water	09/26/06 09:40	10-02-2006 10:40
NMGMW-7	6J02008-06	Water	09/26/06 09:55	10-02-2006 10:40
NMGMW-8	6J02008-07	Water	09/26/06 09:35	10-02-2006 10:40
NMGMW-9	6J02008-08	Water	09/26/06 10:15	10-02-2006 10:40
NMGMW-10	6J02008-09	Water	09/26/06 10:15	10-02-2006 10:40
NMGMW-11	6J02008-10	Water	09/26/06 10:00	10-02-2006 10:40
NMGMW-12	6J02008-11	Water	09/26/06 10:35	10-02-2006 10:40
NMGMW-13	6J02008-12	Water	09/26/06 10:40	10-02-2006 10:40
MW-1	6J02008-13	Water	09/26/06 13:30	10-02-2006 10:40
MW-4	6J02008-14	Water	09/26/06 15:50	10-02-2006 10:40
MW-5	6J02008-15	Water	09/26/06 15:15	10-02-2006 10:40
MW-6	6J02008-16	Water	09/26/06 16:25	10-02-2006 10:40
MW-8	6J02008-17	Water	09/26/06 14:20	10-02-2006 10:40
MW-9	6J02008-18	Water	09/26/06 11:25	10-02-2006 10:40
MW-10	6J02008-19	Water	09/27/06 12:40	10-02-2006 10:40
MW-11	6J02008-20	Water	09/26/06 13:35	10-02-2006 10:40
MW-12	6J02008-21	Water	09/26/06 13:40	10-02-2006 10:40
MW-14	6J02008-22	Water	09/26/06 12:40	10-02-2006 10:40
MW-16	6J02008-23	Water	09/26/06 12:20	10-02-2006 10:40
MW-17	6J02008-24	Water	09/26/06 11:50	10-02-2006 10:40
MW-18	6J02008-25	Water	09/26/06 14:30	10-02-2006 10:40
MW-19	6J02008-26	Water	09/26/06 14:40	10-02-2006 10:40
MW-22	6J02008-27	Water	09/26/06 12:55	10-02-2006 10:40
MW-23	6J02008-28	Water	09/26/06 12:10	10-02-2006 10:40
MW-24	6J02008-29	Water	09/26/06 11:15	10-02-2006 10:40
MW-25	6J02008-30	Water	09/26/06 11:45	10-02-2006 10:40
MW-26	6J02008-31	Water	09/26/06 12:00	10-02-2006 10:40
MW-28	6J02008-32	Water	09/26/06 10:55	10-02-2006 10:40
MW-29	6J02008-33	Water	09/26/06 11:05	10-02-2006 10:40
MW-30	6J02008-34	Water	09/26/06 11:05	10-02-2006 10:40

American Envionmental Consultants	Project: DEFS-DEFS (Eldridge) Ranch	Fax: (303) 948-7793
6885 South Marshall St., Ste. 3	Project Number: None Given	
Littleton CO, 80128	Project Manager: Michael Stewart	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-31	6J02008-35	Water	09/26/06 11:25	10-02-2006 10:40
MW-A	6J02008-36	Water	09/26/06 13:05	10-02-2006 10:40
MW-E	6J02008-37	Water	09/26/06 15:35	10-02-2006 10:40
MW-F	6J02008-38	Water	09/26/06 15:25	10-02-2006 10:40
MW-I	6J02008-39	Water	09/26/06 14:05	10-02-2006 10:40
MW-J	6J02008-40	Water	09/26/06 14:00	10-02-2006 10:40
MW-M	6J02008-41	Water	09/26/06 16:20	10-02-2006 10:40
MW-O	6J02008-42	Water	09/26/06 16:00	10-02-2006 10:40
MW-Q	6J02008-43	Water	09/26/06 17:05	10-02-2006 10:40
MW-S	6J02008-44	Water	09/26/06 15:55	10-02-2006 10:40
MW-MM	6J02008-45	Water	09/26/06 12:35	10-02-2006 10:40
DMW-01	6J02008-46	Water	09/26/06 14:50	10-02-2006 10:40
House	6J02008-47	Water	09/27/06 13:00	10-02-2006 10:40
Irrigation	6J02008-48	Water	09/27/06 12:50	10-02-2006 10:40
Dupolicate N	6J02008-49	Water	09/26/06 00:00	10-02-2006 10:40
Duplicate A	6J02008-50	Water	09/26/06 18:00	10-02-2006 10:40
Duplicate B	6J02008-51	Water	09/26/06 19:00	10-02-2006 10:40
Trip Blank	6J02008-52	Water	09/26/06 00:00	10-02-2006 10:40

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

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NMGMW-2 (6J02008-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	
NMGMW-3 (6J02008-02) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
NMGMW-4 (6J02008-03) Water									
Benzene	ND	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
NMGMW-5 (6J02008-04) Water									
Benzene	**10.2**	0.100	mg/L	100	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.100	"	"	"	"	"	"	
Xylene (o)	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	

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Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NMGMW-6 (6J02008-05) Water									
Benzene	**2.48**	0.100	mg/L	100	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	**J [0.0555]**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.100	"	"	"	"	"	"	
Xylene (o)	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*		*80-120*		"	"	"	
NMGMW-7 (6J02008-06) Water									
Benzene	**0.0107**	0.00100	mg/L	1	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	**0.00418**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00443**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00755**	0.00100	"	"	"	"	"	"	
Xylene (o)	**I [0.000564]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.5 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*80-120*		"	"	"	
NMGMW-8 (6J02008-07) Water									
Benzene	**0.675**	0.00500	mg/L	5	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	**0.00739**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0663**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0122**	0.00500	"	"	"	"	"	"	
Xylene (o)	**J [0.00284]**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*		*80-120*		"	"	"	
NMGMW-9 (6J02008-08) Water									
Benzene	**0.0140**	0.00500	mg/L	5	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.5 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*		*80-120*		"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NMGMW-10 (6J02008-09) Water									
Benzene	**0.361**	0.00500	mg/L	5	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	**0.0120**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0716**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.172**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0382**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
NMGMW-11 (6J02008-10) Water									
Benzene	ND	0.00500	mg/L	5	EJ60313	10/03/06	10/05/06	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
NMGMW-12 (6J02008-11) Water									
Benzene	**0.250**	0.00100	mg/L	1	EJ60618	10/06/06	10/06/06	EPA 8021B	
Toluene	**0.00433**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0249**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00131**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000478]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*80-120*		"	"	"	"	
NMGMW-13 (6J02008-12) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6J02008-13) Water									
Benzene	**0.114**	0.00100	mg/L	1	EJ60618	10/06/06	10/06/06	EPA 8021B	
Toluene	**0.0111**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0571**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0953**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00949**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1380 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*80-120*		"	"	"	"	
MW-4 (6J02008-14) Water									
Benzene	**0.159**	0.0100	mg/L	10	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.693**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.158**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.476**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.122**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*124 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
MW-5 (6J02008-15) Water									
Benzene	**0.0178**	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.00217**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00273**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00296**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00195**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
MW-6 (6J02008-16) Water									
Benzene	**0.0272**	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.00260**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00772**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0464**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000529]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*612 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (6J02008-17) Water									
Benzene	**0.173**	0.00500	mg/L	5	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.0137**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.00670**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0201**	0.00500	"	"	"	"	"	"	
Xylene (o)	**J [0.00332]**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*80-120*		"	"	"	"	
MW-9 (6J02008-18) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.8 %*	*80-120*		"	"	"	"	
MW-10 (6J02008-19) Water									
Benzene	**0.0768**	0.00500	mg/L	5	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	**J [0.00224]**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**J [0.00313]**	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*80-120*		"	"	"	"	
MW-11 (6J02008-20) Water									
Benzene	**4.74**	0.100	mg/L	100	EJ60618	10/06/06	10/08/06	EPA 8021B	
Toluene	**J [0.0702]**	0.100	"	"	"	"	"	"	
Ethylbenzene	ND	0.100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.100	"	"	"	"	"	"	
Xylene (o)	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (6J02008-21) Water									
Benzene	**18.7**	0.100	mg/L	100	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.190**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.146**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.126**	0.100	"	"	"	"	"	"	
Xylene (o)	**J [0.0363]**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.8 %*	*80-120*		"	"	"	"	
MW-14 (6J02008-22) Water									
Benzene	**0.00728**	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.00149**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	
MW-16 (6J02008-23) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		"	"	"	"	
MW-17 (6J02008-24) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	

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MW-18 (6J02008-25) Water									
Benzene	**0.0195**	0.00100	mg/L	1	EJ60618	10/06/06	10/08/06	EPA 8021B	
Toluene	**0.00463**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00932**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0113**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00297**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*124 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
MW-19 (6J02008-26) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		"	"	"	"	
MW-22 (6J02008-27) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-23 (6J02008-28) Water									
Benzene	**0.383**	0.00500	mg/L	5	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	**0.0646**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.117**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.176**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.00534**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*838 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*80-120*		"	"	"	"	

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MW-24 (6J02008-29) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/07/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
MW-25 (6J02008-30) Water									
Benzene	ND	0.00100	mg/L	1	EJ60618	10/06/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
MW-26 (6J02008-31) Water									
Benzene	**77.2**	0.200	mg/L	200	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	**24.9**	0.200	"	"	"	"	"	"	
Ethylbenzene	**0.309**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**0.804**	0.200	"	"	"	"	"	"	
Xylene (o)	**J [0.155]**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		"	"	"	"	
MW-28 (6J02008-32) Water									
Benzene	ND	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	

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Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-29 (6J02008-33) Water									
Benzene	**0.0332**	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	**J [0.000321]**	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	
MW-30 (6J02008-34) Water									
Benzene	ND	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
MW-31 (6J02008-35) Water									
Benzene	ND	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*80-120*		"	"	"	"	
MW-A (6J02008-36) Water									
Benzene	**0.0473**	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**0.0389**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0249**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0604**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0190**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*462 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E (6J02008-37) Water									
Benzene	**0.171**	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	**0.00369**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0133**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0254**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00544**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*140 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*80-120*		"	"	"	"	
MW-F (6J02008-38) Water									
Benzene	ND	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*80-120*		"	"	"	"	
MW-I (6J02008-39) Water									
Benzene	**0.0121**	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**0.00375**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00168**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00383**	0.00100	"	"	"	"	"	"	
Xylene (o)	**J [0.000478]**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.5 %*	*80-120*		"	"	"	"	
MW-J (6J02008-40) Water									
Benzene	**J [0.000522]**	0.00100	mg/L	1	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-M (6J02008-41) Water									
Benzene	**19.5**	0.200	mg/L	200	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	**8.35**	0.200	"	"	"	"	"	"	
Ethylbenzene	**0.242**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**0.413**	0.200	"	"	"	"	"	"	
Xylene (o)	**J [0.114]**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
MW-O (6J02008-42) Water									
Benzene	**12.4**	0.100	mg/L	100	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	ND	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.131**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**0.104**	0.100	"	"	"	"	"	"	
Xylene (o)	ND	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*80-120*		"	"	"	"	
MW-Q (6J02008-43) Water									
Benzene	**2.20**	0.0100	mg/L	10	EJ60702	10/07/06	10/08/06	EPA 8021B	
Toluene	**0.0244**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0646**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0397**	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
MW-S (6J02008-44) Water									
Benzene	ND	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-MM (6J02008-45) Water									
Benzene	**0.464**	0.00500	mg/L	5	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**J [0.00240]**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.0421**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0271**	0.00500	"	"	"	"	"	"	
Xylene (o)	ND	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*80-120*		"	"	"	"	
DMW-01 (6J02008-46) Water									
Benzene	**0.595**	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**0.00838**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0739**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0524**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*955 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*80-120*		"	"	"	"	
House (6J02008-47) Water									
Benzene	**0.00112**	0.00100	mg/L	1	EJ60702	10/07/06	10/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	
Irrigation (6J02008-48) Water									
Benzene	**0.0550**	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**0.0299**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0313**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0701**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0116**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*932 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dupolicate N (6J02008-49) Water									
Benzene	**11.0**	0.0200	mg/L	20	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	ND	0.0200	"	"	"	"	"	"	
Ethylbenzene	ND	0.0200	"	"	"	"	"	"	
Xylene (p/m)	**0.0902**	0.0200	"	"	"	"	"	"	
Xylene (o)	ND	0.0200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*80-120*		"	"	"	"	
Duplicate A (6J02008-50) Water									
Benzene	**0.0173**	0.00100	mg/L	1	EJ60702	10/07/06	10/09/06	EPA 8021B	
Toluene	**0.00179**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00269**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00292**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00192**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*80-120*		"	"	"	"	
Duplicate B (6J02008-51) Water									
Benzene	**2.46**	0.0100	mg/L	10	EJ60910	10/09/06	10/10/06	EPA 8021B	
Toluene	**0.0223**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.0724**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0426**	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*86.8 %*	*80-120*		"	"	"	"	
Trip Blank (6J02008-52) Water									
Benzene	ND	0.00100	mg/L	1	EJ60910	10/09/06	10/09/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*80-120*		"	"	"	"	

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Organics by GC - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ60313 - EPA 5030C (GC)										
Blank (EJ60313-BLK1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	ND	0.0250	mg/L							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*34.5*		*ug/l*	*40.0*		*86.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.3*		*"*	*40.0*		*83.2*	*80-120*			
LCS (EJ60313-BS1)				Prepared: 10/03/06 Analyzed: 10/04/06						
Benzene	0.0502	0.00100	mg/L	0.0500		100	80-120			
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120			
Ethylbenzene	0.0430	0.00100	"	0.0500		86.0	80-120			
Xylene (p/m)	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (o)	0.0452	0.00100	"	0.0500		90.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.8*		*ug/l*	*40.0*		*87.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*40.0*		*108*	*80-120*			
Calibration Check (EJ60313-CCV1)				Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	47.2		ug/l	50.0		94.4	80-120			
Toluene	41.8		"	50.0		83.6	80-120			
Ethylbenzene	41.7		"	50.0		83.4	80-120			
Xylene (p/m)	82.2		"	100		82.2	80-120			
Xylene (o)	40.9		"	50.0		81.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.3*		*"*	*40.0*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.7*		*"*	*40.0*		*96.8*	*80-120*			
Matrix Spike (EJ60313-MS1)	**Source: 6J02007-06**			Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	0.0540	0.00100	mg/L	0.0500	ND	108	80-120			
Toluene	0.0462	0.00100	"	0.0500	ND	92.4	80-120			
Ethylbenzene	0.0431	0.00100	"	0.0500	ND	86.2	80-120			
Xylene (p/m)	0.0958	0.00100	"	0.100	ND	95.8	80-120			
Xylene (o)	0.0437	0.00100	"	0.0500	ND	87.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.7*		*ug/l*	*40.0*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.0*		*"*	*40.0*		*108*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ60313 - EPA 5030C (GC)										
Matrix Spike Dup (EJ60313-MSD1)	**Source: 6J02007-06**			Prepared: 10/03/06 Analyzed: 10/05/06						
Benzene	0.0545	0.00100	mg/L	0.0500	ND	109	80-120	0.922	20	
Toluene	0.0477	0.00100	"	0.0500	ND	95.4	80-120	3.19	20	
Ethylbenzene	0.0440	0.00100	"	0.0500	ND	88.0	80-120	2.07	20	
Xylene (p/m)	0.0958	0.00100	"	0.100	ND	95.8	80-120	0.00	20	
Xylene (o)	0.0468	0.00100	"	0.0500	ND	93.6	80-120	6.85	20	
Surrogate: a,a,a-Trifluorotoluene	*40.9*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.1*		*"*	*40.0*		*110*	*80-120*			
Batch EJ60618 - EPA 5030C (GC)										
Blank (EJ60618-BLK1)				Prepared & Analyzed: 10/06/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*33.1*		*ug/l*	*40.0*		*82.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.9*		*"*	*40.0*		*87.2*	*80-120*			
LCS (EJ60618-BS1)				Prepared: 10/06/06 Analyzed: 10/07/06						
Benzene	0.0454	0.00100	mg/L	0.0500		90.8	80-120			
Toluene	0.0423	0.00100	"	0.0500		84.6	80-120			
Ethylbenzene	0.0520	0.00100	"	0.0500		104	80-120			
Xylene (p/m)	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (o)	0.0423	0.00100	"	0.0500		84.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.5*		*ug/l*	*40.0*		*81.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.8*		*"*	*40.0*		*104*	*80-120*			

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

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 EJ60618 - EPA 5030C (GC)										
Calibration Check (EJ60618-CCV1)				Prepared: 10/06/06 Analyzed: 10/09/06						
Benzene	43.3		ug/l	50.0		86.6	80-120			
Toluene	40.3		"	50.0		80.6	80-120			
Ethylbenzene	41.3		"	50.0		82.6	80-120			
Xylene (p/m)	81.3		"	100		81.3	80-120			
Xylene (o)	42.5		"	50.0		85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.6*		"	*40.0*		*84.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.2*		"	*40.0*		*83.0*	*80-120*			
Matrix Spike (EJ60618-MS1)	**Source: 6J02008-29**			Prepared: 10/06/06 Analyzed: 10/07/06						
Benzene	0.0512	0.00100	mg/L	0.0500	ND	102	80-120			
Toluene	0.0444	0.00100	"	0.0500	ND	88.8	80-120			
Ethylbenzene	0.0512	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.0903	0.00100	"	0.100	ND	90.3	80-120			
Xylene (o)	0.0417	0.00100	"	0.0500	ND	83.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.2*		*ug/l*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.1*		"	*40.0*		*97.8*	*80-120*			
Matrix Spike Dup (EJ60618-MSD1)	**Source: 6J02008-29**			Prepared: 10/06/06 Analyzed: 10/08/06						
Benzene	0.0486	0.00100	mg/L	0.0500	ND	97.2	80-120	4.82	20	
Toluene	0.0446	0.00100	"	0.0500	ND	89.2	80-120	0.449	20	
Ethylbenzene	0.0519	0.00100	"	0.0500	ND	104	80-120	1.94	20	
Xylene (p/m)	0.0926	0.00100	"	0.100	ND	92.6	80-120	2.52	20	
Xylene (o)	0.0444	0.00100	"	0.0500	ND	88.8	80-120	6.27	20	
Surrogate: a,a,a-Trifluorotoluene	*34.3*		*ug/l*	*40.0*		*85.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.0*		"	*40.0*		*105*	*80-120*			
Batch EJ60702 - EPA 5030C (GC)										
Blank (EJ60702-BLK1)				Prepared: 10/07/06 Analyzed: 10/08/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*34.9*		*ug/l*	*40.0*		*87.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.2*		"	*40.0*		*85.5*	*80-120*			

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

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 EJ60702 - EPA 5030C (GC)										
LCS (EJ60702-BS1)				Prepared: 10/07/06 Analyzed: 10/08/06						
Benzene	0.0454	0.00100	mg/L	0.0500		90.8	80-120			
Toluene	0.0404	0.00100	"	0.0500		80.8	80-120			
Ethylbenzene	0.0438	0.00100	"	0.0500		87.6	80-120			
Xylene (p/m)	0.0810	0.00100	"	0.100		81.0	80-120			
Xylene (o)	0.0401	0.00100	"	0.0500		80.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.9*		*ug/l*	*40.0*		*82.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.5*		*"*	*40.0*		*91.2*	*80-120*			
Calibration Check (EJ60702-CCV1)				Prepared: 10/07/06 Analyzed: 10/10/06						
Benzene	54.7		ug/l	50.0		109	80-120			
Toluene	46.1		"	50.0		92.2	80-120			
Ethylbenzene	45.3		"	50.0		90.6	80-120			
Xylene (p/m)	96.7		"	100		96.7	80-120			
Xylene (o)	46.9		"	50.0		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.2*		*"*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.0*		*"*	*40.0*		*108*	*80-120*			
Matrix Spike (EJ60702-MS1)		**Source: 6J02008-32**		Prepared: 10/07/06 Analyzed: 10/09/06						
Benzene	0.0521	0.00100	mg/L	0.0500	ND	104	80-120			
Toluene	0.0455	0.00100	"	0.0500	ND	91.0	80-120			
Ethylbenzene	0.0433	0.00100	"	0.0500	ND	86.6	80-120			
Xylene (p/m)	0.0846	0.00100	"	0.100	ND	84.6	80-120			
Xylene (o)	0.0424	0.00100	"	0.0500	ND	84.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.9*		*ug/l*	*40.0*		*92.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		*"*	*40.0*		*96.0*	*80-120*			
Matrix Spike Dup (EJ60702-MSD1)		**Source: 6J02008-32**		Prepared: 10/07/06 Analyzed: 10/09/06						
Benzene	0.0458	0.00100	mg/L	0.0500	ND	91.6	80-120	12.7	20	
Toluene	0.0402	0.00100	"	0.0500	ND	80.4	80-120	12.4	20	
Ethylbenzene	0.0431	0.00100	"	0.0500	ND	86.2	80-120	0.463	20	
Xylene (p/m)	0.0808	0.00100	"	0.100	ND	80.8	80-120	4.59	20	
Xylene (o)	0.0409	0.00100	"	0.0500	ND	81.8	80-120	3.60	20	
Surrogate: a,a,a-Trifluorotoluene	*32.1*		*ug/l*	*40.0*		*80.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.8*		*"*	*40.0*		*82.0*	*80-120*			

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

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 EJ60910 - EPA 5030C (GC)										
Blank (EJ60910-BLK1)				Prepared & Analyzed: 10/09/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*33.5*		*ug/l*	*40.0*		*83.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.9*		*"*	*40.0*		*82.2*	*80-120*			
LCS (EJ60910-BS1)				Prepared: 10/09/06 Analyzed: 10/10/06						
Benzene	0.0553	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0467	0.00100	"	0.0500		93.4	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500		100	80-120			
Xylene (p/m)	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (o)	0.0459	0.00100	"	0.0500		91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.6*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.0*		*"*	*40.0*		*100*	*80-120*			
Calibration Check (EJ60910-CCV1)				Prepared: 10/09/06 Analyzed: 10/11/06						
Benzene	47.0		ug/l	50.0		94.0	80-120			
Toluene	42.5		"	50.0		85.0	80-120			
Ethylbenzene	43.0		"	50.0		86.0	80-120			
Xylene (p/m)	85.5		"	100		85.5	80-120			
Xylene (o)	40.4		"	50.0		80.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.6*		*"*	*40.0*		*84.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.4*		*"*	*40.0*		*81.0*	*80-120*			
Matrix Spike (EJ60910-MS1)	**Source: 6J02008-52**			Prepared: 10/09/06 Analyzed: 10/10/06						
Benzene	0.0466	0.00100	mg/L	0.0500	ND	93.2	80-120			
Toluene	0.0423	0.00100	"	0.0500	ND	84.6	80-120			
Ethylbenzene	0.0400	0.00100	"	0.0500	ND	80.0	80-120			
Xylene (p/m)	0.0838	0.00100	"	0.100	ND	83.8	80-120			
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.6*		*ug/l*	*40.0*		*84.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		*"*	*40.0*		*100*	*80-120*			

American Envionmental Consultants
6885 South Marshall St., Ste. 3
Littleton CO, 80128

Project: DEFS-DEFS (Eldridge) Ranch
Project Number: None Given
Project Manager: Michael Stewart

Fax: (303) 948-7793

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 EJ60910 - EPA 5030C (GC)										
Matrix Spike Dup (EJ60910-MSD1)	**Source: 6J02008-52**			Prepared: 10/09/06 Analyzed: 10/10/06						
Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	11.0	20	
Toluene	0.0462	0.00100	"	0.0500	ND	92.4	80-120	8.81	20	
Ethylbenzene	0.0444	0.00100	"	0.0500	ND	88.8	80-120	10.4	20	
Xylene (p/m)	0.0879	0.00100	"	0.100	ND	87.9	80-120	4.78	20	
Xylene (o)	0.0442	0.00100	"	0.0500	ND	88.4	80-120	8.00	20	
Surrogate: a,a,a-Trifluorotoluene	*39.3*		*ug/l*	*40.0*		*98.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.6*		*"*	*40.0*		*112*	*80-120*			

American Envionmental Consultants	Project: DEFS-DEFS (Eldridge) Ranch	Fax: (303) 948-7793
6885 South Marshall St., Ste. 3	Project Number: None Given	
Littleton CO, 80128	Project Manager: Michael Stewart	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: Celey D. Keene Date: 10/12/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
La Tasha 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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7793
Sampler Signature: Jah Zay

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 605/2008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl with VOA vial	H_2SO_4	NaOH	$Na_2S_2O_3$	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	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	TOTAL: 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	NM6MW-2			9/26/06	0915	2	✓		✓						GW								✓					✓
02	NM6MW-3			9/26/06	1650	2	✓		✓						GW								✓					✓
03	NM6MW-4			9/26/06	0910	2	✓		✓						GW								✓					✓
04	NM6MW-5			9/26/06	0900	2	✓		✓						GW								✓					✓
05	NM6MW-6			9/26/06	0940	2	✓		✓						GW								✓					✓
06	NM6MW-7			9/26/06	0955	2	✓		✓						GW								✓					✓
07	NM6MW-8			9/26/06	0935	2	✓		✓						GW								✓					✓
08	NM6MW-9			9/26/06	1015	2	✓		✓						GW								✓					✓
09	NM6MW-10			9/26/06	1015	2	✓		✓						GW								✓					✓
10	NM6MW-11			9/26/06	1000	2	✓		✓						GW								✓					✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers
Questions?: use time on COC's

Relinquished by:	Date	Time	Received by:	Date	Time
Jah Zay	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cara Kelly	10/2/06	10:40

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

Temperature Upon Receipt: 1.5 °C

2

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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7793
Sampler Signature:

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 6J01008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	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 602/8~~	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	NM6 MW-12			9/26/06	1035	2	✓		✓						GW									✓					✓
12	NM6 MW-13			9/26/06	1040	2	✓		✓						GW									✓					✓
13	MW-1			9/26/06	1330	2	✓		✓						GW									✓					✓
14	MW-4			9/26/06	~~1330~~ 1350	2	✓		✓						GW									✓					✓
15	MW-5			9/26/06	1515	2	✓		✓						GW									✓					✓
16	MW-6			9/26/06	1625	2	✓		✓						GW									✓					✓
17	MW-8			9/26/06	1420	2	✓		✓						GW									✓					✓
18	MW-9			9/26/06	1125	2	✓		✓						GW									✓					✓
19	MW-10			9/27/06	1240	2	✓		✓						GW									✓					✓
20	MW-11			9/26/06	1335	2	✓		✓						GW									✓					✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cecil Ivey	10/2/06	10:40

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		

Temperature Upon Receipt: 1.5 °C

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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Site 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7723
Sampler Signature: John Fay

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 610608

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
11	MW-12			9/26/06	1340	2	✓		✓						GW								✓				✓
12	MW-14			9/26/06	1240	2	✓		✓						GW								✓				✓
13	MW-16			9/26/06	1220	2	✓		✓						GW								✓				✓
14	MW-17			9/26/06	1150	2	✓		✓						GW								✓				✓
15	MW-18			9/26/06	1430	2	✓		✓						GW								✓				✓
16	MW-19			9/26/06	1440	2	✓		✓						GW								✓				✓
17	MW-22			9/26/06	1255	2	✓		✓						GW								✓				✓
18	MW-23			9/26/06	1210	2	✓		✓						GW								✓				✓
19	MW-24			9/26/06	1115	6	✓		✓						GW								✓				✓
20	MW-25			9/26/06	1145	2	✓		✓						GW								✓				✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
John Fay	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Chris Kelly	10/2/06	10:40

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

Temperature Upon Receipt: 1.5 °C

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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7793
Sampler Signature:

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 60J0280X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW=Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH 418.1 8015M 1005 1006	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 TPH 8260~~	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
31	MW-26			9/26/06	1200	2	✓		✓						GW								✓				✓
32	MW-28			9/26/06	1055	2	✓		✓						GW								✓				✓
33	MW-29			9/26/06	1105	2	✓		✓						GW								✓				✓
34	MW-30			9/26/06	1105	2	✓		✓						GW								✓				✓
35	MW-31			9/26/06	1125	2	✓		✓						GW								✓				✓
30	MW-A			9/26/06	1305	2	✓		✓						GW								✓				✓
37	MW-E			9/26/06	1535	2	✓		✓						GW								✓				✓
38	MW-F			9/26/06	1525	2	✓		✓						GW								✓				✓
39	MW-I			9/26/06	1405	2	✓		✓						GW								✓				✓
40	MW-J			9/26/06	1400	2	✓		✓						GW								✓				✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cheri Kelly	10/2/06	10:40

Laboratory Comments:

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

Temperature Upon Receipt: 1.5 °C

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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7733
Sampler Signature: Jah Zay

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 6J01006

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	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 8260B/5030~~	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	MW-M			9/26/06	1620	2	✓		✓						GW								✓					✓
02	MW-O			9/26/06	1600	2	✓		✓						GW								✓					✓
03	MW-Q			9/26/06	1705	2	✓		✓						GW								✓					✓
04	MW-S			9/26/06	1555	2	✓		✓						GW								✓					✓
05	MW-MM			9/26/06	1235	2	✓		✓						GW								✓					✓
06	DMW-01			9/26/06	1450	2	✓		✓						GW								✓					✓
07	House			9/27/06	1300	2	✓		✓						GW								✓					✓
08	Irrigation			9/27/06	1250	2	✓		✓						GW								✓					✓
09	Duplicate "N"			9/26/06	0000	2	✓		✓						GW								✓					✓
10	Duplicate "A"			9/26/06	1800	2	✓		✓						GW								✓					✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				10/2/06	10:40

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

Temperature Upon Receipt: 1.5 °C

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 Stewart
Company Name: American Environmental Consulting
Company Address: 6885 South Marshall, Suite 3
City/State/Zip: Littleton, CO 80128
Telephone No: 303-948-7733 Fax No: 303-948-7793
Sampler Signature:

Project Name: Duke Energy Field Services
Project #: DEFS (Eldridge) Ranch
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail:

(lab use only)
ORDER #: 610200

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	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
51	Duplicate "B"			9/26/06	1900	2	✓		✓						GW								✓				✓
52	Trip Blank					2	✓		✓														✓				✓

Special Instructions: Invoice To: DEFS
Attn: Steve Weathers

Relinquished by:	Date	Time	Received by:	Date	Time
	10/2/06	1040			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Carrie Kelly	Date 10/4/06	Time 10:40

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

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: American Env.

Date/ Time: 10/2/06 10:40

Lab ID # : 630208

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	~~Not Present~~	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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