

2006 Second Semiannual Stage 2 Groundwater Monitoring Report

Cabot Carbon/Koppers Superfund Site Gainesville, Florida

Prepared for:

Beazer East, Inc.

Prepared by:

Field & Technical Services, L.L.C.

200 Third Avenue

Carnegie, Pennsylvania 15106

412-429-2694

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1.0 INTRODUCTION

On behalf of Beazer East, Inc. (Beazer), Field & Technical Services, L.L.C. (FTS) herein submits the 2006 Second Semiannual Stage 2 Groundwater Monitoring Report for the Cabot Carbon/Koppers Superfund Site (Site) in Gainesville, Florida. FTS prepared this report in accordance with the Proposed Stage 2 Groundwater Monitoring Program, Initial Groundwater Remedial Action (Stage 2 Monitoring Program), published by TRC Environmental Solutions, Inc. (TRC) in August 1997 and approved by the United States Environmental Protection Agency (USEPA) on April 28, 1998. The basis for the Stage 2 Monitoring Program is outlined in the Ground Water Remedial Goal Verification Plan (RGVP), included as Appendix C.2 in the Groundwater Remedial Action Report (McLaren/Hart, 1994).

Fourteen (14) groundwater extraction wells currently operate continuously along the northern and eastern property boundary at the Site. The groundwater extraction system (containment system) was designed to prevent the offsite migration of dissolved Site-related constituents in shallow groundwater. Beazer initiated the Stage 2 Monitoring Program in January 1995 to verify that operation of the containment system creates a hydraulic barrier sufficient to contain shallow groundwater impacted by Site-related constituents. The Stage 2 Program consists of two parts:

- Groundwater Containment System Performance Monitoring evaluates the system's performance based primarily on the determination of extraction well capture zones by the analysis of Site water levels and well pumping rates on a monthly and quarterly basis.
- Groundwater Quality Monitoring evaluates compliance of the remedial system by monitoring groundwater quality in the extraction wells and offsite, downgradient wells on an annual basis.

This report discusses the Groundwater Containment System Performance Monitoring conducted monthly during 2006. The Groundwater Containment System Performance Monitoring included:

- quarterly measuring and recording of groundwater levels in 14 onsite extraction wells, 47 onsite and offsite shallow monitoring wells, and 24 shallow piezometers;
- quarterly monitoring of the wells and piezometers for the presence of non-aqueous phase liquid (NAPL); and
- monthly recording of totalized and instantaneous flow rates for the 14 onsite extraction wells.

Section 2 of this report presents the data collection methods, and Section 3 presents the results and conclusions of the Groundwater Containment System Performance Monitoring.

1.1 SITE LOCATION AND HYDROGEOLOGY

The Site is located at the corner of Main Street and NW 23rd Avenue in Gainesville, Florida, as shown on Figure 1. The Site is approximately 90 acres in size with 14 groundwater extraction wells along the northern and eastern property boundary (Figure 2). The Site is currently owned and operated by Koppers Inc. (formerly Koppers Industries, Inc.)

The Surficial Aquifer consists of unconsolidated deposits of sand with trace amounts of silt and clay. The Surficial Aquifer extends from 20 to 28 feet below ground surface (bgs) and is underlain by the Hawthorn Group formation.

1.2 2006 SITE ACTIVITIES

In addition to the activities performed as part of the Stage 2 Monitoring Program, Beazer performed the following activities in 2006:

- Mr. Michael McKinney, P.E., Beazer's Operation and Maintenance Operator (Site Operator), performed routine operation and maintenance of the groundwater containment system.
- Beazer continued quarterly Upper Floridan Aquifer sampling and presented the results in separate reports.

2.0 DATA COLLECTION METHODS

This section discusses the methods used to collect the data for the Stage 2 Monitoring Program.

2.1 GROUNDWATER QUALITY MONITORING

FTS collected groundwater samples on December 13 and 14, 2006 from two downgradient wells (M-05B and M-33B), three offsite wells (ESE-001, ITW-12, and ITW-20), and all 14 extraction wells. The annual groundwater sampling event included:

- measuring water levels and determining the presence of NAPL (in the downgradient and offsite wells);
- purging the wells and determining field values of pH, temperature, and specific conductance at each well sampled; and,
- collecting groundwater samples.

The sampling team recorded the field observations and measurements on groundwater sampling forms. Appendix A provides a tabulated summary of the groundwater gauging and field parameter data and copies of the groundwater sampling forms.

Field personnel purged the groundwater stored within the wellbore prior to collecting the groundwater samples using a dedicated, Teflon[®] bailer. The samplers obtained field measurements of pH, specific conductance, and temperature while purging to document changes in purge-water quality. Purging continued until:

- a minimum of three well volumes of groundwater were removed from the monitoring well and the pH, specific conductance, and temperature of the purge water stabilized;
- a maximum of five well volumes were removed; or,
- until the monitoring well purged dry.

The field crew sampled the extraction wells from the sample port. The extraction wells do not need to be purged since the wells are pumping continuously as part of the containment system. The samplers recorded one set of field parameters for each extraction well before they collected the samples.

The field technicians packed the groundwater samples in a cooler with ice and a chain-of-custody form; and Columbia Analytical Services (CAS) in Jacksonville, Florida, picked up the samples for analysis of:

- benzene, ethylbenzene, toluene, and total xylenes (BTEX)
- select semivolatile organic compounds (SVOCs)
- total and dissolved arsenic and chromium.

CAS provided the analytical data to FTS who reviewed them for quality and completeness. Upon acceptance, FTS electronically transferred the data into a database for storage, reduction, and evaluation.

3.0 GROUNDWATER CONTAINMENT SYSTEM PERFORMANCE MONITORING

In 2006, the Site Operator used an oil/water interface probe to measure and record the depth to groundwater and NAPL in the 14 extraction wells, 47 monitoring wells, and 24 piezometers present in the Surficial Aquifer at the Site. Tables 1 through 4 summarize the quarterly well gauging data.

In addition to gauging activities, the Site Operator recorded the instantaneous flow rate and flow meter totalizer readings for each groundwater extraction well on a monthly basis. The Site Operator determined the instantaneous flow rates from the totalizing flow meter connected to each extraction well by measuring the volume of water pumped in one minute from that well.

- FTS calculated quarterly average flow rates for each extraction well by dividing the total volume of water pumped between totalizer readings by the time elapsed.

Table 5 summarizes the monthly and quarterly average flow rates for 2006.

Historically, the numerical model FLOWPATH II (Franz and Guiguer, 1994) was utilized as one tool in the evaluation of the hydraulic-containment system groundwater capture. The two-dimensional groundwater flow model was developed by McLaren/Hart with data generated during the Pre-Design Investigation. The model provided a technically valid numerical approach to evaluate the performance of the containment system. More recently, additional hydrogeologic investigations and data collection were performed in the Hawthorn Group and Upper Floridan Aquifer that allowed for a more comprehensive evaluation of groundwater flow and constituent transport at the Site. In addition to the investigations, Beazer contracted GeoTrans, Inc. to perform a comprehensive evaluation of all groundwater and constituent transport data. Included in this evaluation was the development of a three-dimensional fate and transport model (the Site Model) that more accurately simulates groundwater flow and constituent transport at the site (GeoTrans, Inc., 2004). Results from the Site Model simulations indicate that the hydraulic-containment system may not be 100-percent effective in capturing Surficial Aquifer groundwater flow from the Site. The Site Model also demonstrated that constituents that are potentially bypassing the containment system are either captured by the Cabot Carbon containment system or naturally attenuated within a short distance downgradient of the Site.

Beazer is in the process of developing a Feasibility Study (FS) for the entire groundwater system at the Site. As part of this FS, Beazer will address the approach to remediating the Surficial Aquifer impacts. A review of the effectiveness of the Surficial Aquifer groundwater containment system was performed in December 2006. A letter describing the results and recommendations was submitted to the EPA on December 22, 2006.

3.1 NON-AQUEOUS PHASE LIQUIDS

NAPL was not detected in any of the extraction wells or piezometers in 2006 (Tables 1 through 4). Dense NAPL (DNAPL) was not detected in any of the Surficial Aquifer monitoring wells. With the exception of PW-1, NAPL has never been detected in Surficial Aquifer wells at the Site since the Stage 1 Monitoring Program was initiated in January 1995.

In November 2004, RETEC initiated a DNAPL recovery pilot test at shallow well PW-01. The test ran from November 9, 2004 through April 21, 2005. The pilot test pumped water continuously and pumped DNAPL on a daily basis. During this time, DNAPL was detected in well PW-01 at a thickness of 0.31 feet on January 30, 2005 which dropped to a trace of DNAPL on May 2, 2005, after the pilot test ended. DNAPL was again detected in well PW-01 at a thickness of 0.31 feet on February 2, 2006 and was removed by bailer. Following the removal of DNAPL from PW-01 on February 2, 2006, gauging events conducted throughout the remainder of 2006 indicated that DNAPL was not present at this location.

3.2 GROUNDWATER ELEVATION

Tables 1 through 4 summarize the groundwater elevation data. In July 2004, GeoTrans resurveyed the locations and top of inner casing elevations for most of the site wells. The top of inner casing elevations were, on average, 0.62 feet lower than previously reported. This new survey data was used to calculate the groundwater elevations on Tables 1 through 4 and to generate the groundwater elevation contours for the Surficial Aquifer monitoring wells and piezometers shown in Figures 3 through 6. Because hydraulic head losses occur across the well annulus and casing, water levels measured in the extraction wells are typically lower than those measured in piezometers immediately adjacent to the extraction wells. Therefore, the extraction well data were not used to prepare Figures 3 through 6, but the piezometer data were used to provide a representative picture of conditions in the extraction well area.

Groundwater in the Surficial Aquifer flows toward the north-northeast, under an average hydraulic gradient (across the entire Site) of 0.0045 ft/ft. The gradient ranges from 0.0036 ft/ft near the southern portion of the Site to 0.01 ft/ft in the northern portion of the Site. Groundwater flow direction is influenced by the shallow extraction well network which collectively extracts approximately 30 GPM from the surficial aquifer. Within the vicinity of each extraction well, the water table is depressed approximately three to six feet. Due to the scale of the facility-wide contour maps, the depression around most extraction wells cannot be depicted accurately although depressions are evident around wells EW-06 on Figure 3, EW-14 on Figure 5, and EW-15 on Figure 6. Due to the strategic placement of the extraction well network and the prevailing flow direction, the shallow extraction system provides containment for much of the shallow groundwater migrating from the site. Groundwater flow directions and gradients occurring in 2006 were consistent with historical site conditions.

Through parts of 2004 and 2005, the region was experiencing a drought, and conditions at the Site were dry. However, in the third quarter of 2004, rainfall amounts were approximately twice

the average. In 2005, rainfall averages fluctuated from below to above average throughout the year. In 2006, rainfall amounts were approximately 30 percent below the historical average.

Rainfall (inches)	Historical Average	2000	2001	2002	2003	2004	2005	2006
1st Quarter	11.16	5.99	7.07	6.98	13.92	9.11	7.83	8.96
2nd Quarter	12.87	7.21	13.20	10.68	10.67	8.63	17.69	8.92
3rd Quarter	17.10	19.03	19.18	24.34	16.09	34.75	13.52	11.39
4th Quarter	7.23	3.11	1.80	12.80	5.77	5.87	10.99	6.29
Full Year	48.36	35.34	41.25	54.80	46.45	58.36	50.03	35.56

Monthly and annual variation in precipitation can be directly correlated to observed fluctuations in Surficial Aquifer groundwater elevations at the Site. During 2006, Surficial Aquifer groundwater elevations decreased on average by 2.84 feet from the beginning of February to the end of October.

4.0 GROUNDWATER QUALITY MONITORING

The groundwater quality performance monitoring program detailed in the RGVP consisted of two stages:

- Stage 1 – Initial Performance Monitoring
- Stage 2 – Compliance Monitoring

On April 28, 1998, the USEPA approved the Stage 2 Monitoring Program, and Beazer initiated it. The Stage 2 Monitoring Program reduced groundwater quality monitoring to annual sampling of a subset of RGVP wells. The sampled wells include two downgradient wells (M-05B and M-33B), three offsite wells (ESE-001, ITW-12, and ITW-20), and all 14 extraction wells (Figure 2).

In addition, the Stage 2 Monitoring Program required specific analyses at each well based on evaluation of the data from the Stage 1 Monitoring Program. The Stage 2 Monitoring Program assigned constituents for analysis at each well based on how consistently they were detected in that well above their respective detection limit and/or above their remedial goal. Table 6 summarizes the analyses performed at each well for the Stage 2 Program.

Table 7 summarizes the December 2006 analytical results for the extraction wells, and Table 8 summarizes the results for the downgradient and offsite wells. Appendix B provides copies of the laboratory analytical reports.

4.1 ONSITE EXTRACTION WELLS

The results for the 2006 sampling event summarized on Table 7 are similar to historic data (December 1999 through present) in that:

- BTEX concentrations are highest in well EW-17.
- PAH concentrations are highest in well EW-13. Pentachlorophenol concentrations are highest in well EW-16.
- Total and dissolved arsenic concentrations are greatest in groundwater sampled from well EW-16.

As shown on Table 7, BTEX compounds were detected in samples from two of the three wells sampled for BTEX (EW-16 and EW-17). Groundwater from well EW-17 continues to have the highest calculated total BTEX concentrations (594 µg/L), compared to EW-16 (6.73 µg/L) and EW-2 (not detected).

PAHs were detected in 10 of the 13 extraction wells sampled, with the highest calculated total PAH concentrations detected in well EW-13 (5,356.9 µg/L). The remaining total PAH

concentrations ranged from below the detection limit (wells EW-01, EW-02, and EW-10) to 2,910 µg/L (EW-14).

Pentachlorophenol was only detected in 4 of the 13 extraction wells (EW-13, EW-14, EW-15, and EW-16). The 2006 pentachlorophenol concentration for EW-16 was 9,100 µg/L. The pentachlorophenol concentrations for extraction wells EW-13, EW-14, and EW-15 were all estimated and ranged from 0.84 J to 11 J. All remaining extraction wells were non-detect for pentachlorophenol.

A total of 7 of the 11 onsite extraction wells that were sampled for arsenic, contained dissolved arsenic concentrations that exceeded the Federal and State standards of 10 µg/L (Table 7). As seen in previous events, the highest total and dissolved arsenic concentrations were in well EW-16 (5,100 µg/L and 4,700 µg/L, respectively). The remaining arsenic concentrations ranged as follows: total arsenic from 1.6 µg/L (EW-06) to 79 µg/L (EW-15); dissolved arsenic from 0.73 µg/L (EW-10) to 77 µg/L (EW-15).

2,4-Dimethylphenol was detected in 3 of the 13 extraction wells (EW-13, EW-14, and EW-16). The 2,4-Dimethylphenol concentrations ranged from 0.7 J µg/L (EW-16) to 27 J µg/L (EW-13).

In 2006, dissolved chromium was detected in 7 of the 10 extraction wells. The dissolved chromium detected concentrations ranged from 1.0 J µg/L (EW-05) to 5 µg/L (EW-16). Total chromium was detected in 4 of the 10 extraction wells. The total chromium detected concentrations ranged from 2.8 µg/L (EW-06) to 49 µg/L (EW-10).

4.2 DOWNGRAIENT WELLS

Two downgradient wells (M-05B and M-33B) are sampled as part of the Stage 2 Program for select SVOCs (both wells) and total and dissolved arsenic and chromium (M-33B only).

The only PAH that was detected in well M-05B during the December 2006 sampling event was naphthalene, with an estimated value of 0.87 J µg/L (Table 8). For well M-33B, PAHs have been detected in this well since 1999 and the calculated total PAH concentration for 2006 (667.93 J µg/L) was within the range of historic data. No phenols were detected in either well M-05B or well M-33B during this event.

Total arsenic was detected at an estimated concentration of 0.42 J µg/L in well M-33B, dissolved arsenic was not detected in this well during this sampling event. Dissolved chromium was detected at an estimated concentration of 1.3 JB µg/L in well M-33B, and was also detected in the equipment blank indicating blank contamination. Total chromium was not detected in this well M-33B during this sampling event.

4.3 OFFSITE WELLS

Three offsite wells (ESE-001, ITW-12, and ITW-20) are sampled as part of the Stage 2 Program for select SVOCs and total and dissolved arsenic and chromium.

Several PAHs were detected in groundwater sampled from the offsite wells in 2006 (Table 8). The total PAH concentrations ranged from 1.1 J µg/L (ESE-001) to 15.3 J µg/L (ITW-12 AVG). No phenols were detected in the offsite wells during this event.

Dissolved and total arsenic was detected in wells (ITW-12 and ITW-20) at concentrations ranging from 0.56 µg/L (ITW-12 AVG) to 0.62 µg/L (ITW-20) and 0.38 J µg/L (ITW-12 AVG) to 0.83 µg/L (ITW-20), respectively. Dissolved chromium was detected in all four offsite samples, and was also detected in the equipment blank indicating blank contamination. Total chromium was not detected in this any offsite wells during this sampling event.

4.4 DATA QUALITY

FTS evaluated the data using *USEPA National Functional Guidelines* (USEPA, 1999 and 2000) and USEPA method specifications and added all of the necessary data qualifiers to the Site database and the data summary table (Tables 7 and 8). FTS assigned the data qualifiers based on the following data quality issues as noted during validation of the 2006 data package.

- The following analyte was detected in the aqueous laboratory method blank (MB7-1219) at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Total Chromium	0.00056 mg/L	0.0028 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for laboratory contamination. Associated samples with concentrations below the blank action level were qualified with a “U” for laboratory blank contamination.

- The following analytes were detected in the aqueous equipment blank (EB01) from 12/14/06 at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Dissolved Chromium	0.00092 mg/L	0.0046 mg/L
Total Chromium	0.00074 mg/L	0.0037 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for equipment/ field blank contamination. Associated samples with concentrations below the blank action level were qualified with a “B” for field blank contamination.

- The following analytes were detected in the aqueous laboratory method blank (J0605945-MBW) at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Total Chromium	0.0004 mg/L	0.002 mg/L
Dissolved Chromium	0.00018 mg/L	0.0009 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for laboratory contamination. Associated samples with concentrations below the blank action level were qualified with a “U” for laboratory blank contamination.

5.0 CONCLUSIONS

The groundwater elevation contours for this Site show that groundwater flows toward the north-northeast. The hydraulic gradient ranges from 0.0036 ft/ft at the southern end of the Site to 0.01 ft/ft at the northern end of the Site with an average hydraulic gradient across the Site of 0.0045 ft/ft. The groundwater gradients and flow direction for 2006 are similar to those reported in 2005.

Monthly and annual variation in precipitation can be directly correlated to observed fluctuations in Surficial Aquifer groundwater elevations at the Site. During 2006, Surficial Aquifer groundwater elevations decreased on average by 2.84 feet from the beginning of February to the end of October.

The GeoTrans Site Model indicates that the hydraulic containment system may not be providing complete capture of Site groundwater. The combination of the hydraulic containment systems on the Koppers and Cabot Carbon sites in conjunction with natural attenuation, are providing effective containment of Site constituents.

Groundwater quality for the 2006 reporting period is generally similar to that reported in past years. The groundwater quality monitoring data showed that the highest concentrations of BTEX, PAHs, pentachlorophenol, and metals were found within the capture zone of the extraction wells.

6.0 REFERENCES

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Tables

Table 1
First Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
February 2, 2006				
EW-01	180.45	11.31	169.14	ND
EW-02	178.89	12.64	166.25	ND
EW-03	175.82	19.01	156.81	ND
EW-05	171.33	10.34	160.99	ND
EW-06	173.02	12.75	160.27	ND
EW-08	174.10	11.95	162.15	ND
EW-09	176.17	9.62	166.55	ND
EW-10	177.33	11.72	165.61	ND
EW-11	178.30	12.72	165.58	ND
EW-13	179.99	10.17	169.82	ND
EW-14	181.84	12.96	168.88	ND
EW-15	182.94	24.25	158.69	ND
EW-16	184.24	13.65	170.59	ND
EW-17	184.76	23.12	161.64	ND
M-01	184.10	9.52	174.58	ND
M-03A	182.21	10.06	172.15	ND
M-03BR	179.60	7.55	172.05	ND
M-04	177.23	6.96	170.27	ND
M-05B	182.18	10.92	171.26	ND
M-06	180.50	9.93	170.57	ND
M-07A	177.09	7.5	169.59	ND
M-07B	176.92	7.41	169.51	ND
M-08R	175.71	7.16	168.55	ND
M-09AR	173.80	8.99	164.81	ND
M-09BR	173.22	8.34	164.88	ND
M-10	173.93	5.21	168.72	ND
M-11B	187.99	11.71	176.28	ND
M-12	181.06	7.28	173.78	ND
M-14	187.16	9.06	178.10	ND
M-15B	181.89	6.61	175.28	ND
M-16A	180.96	7.45	173.51	ND
M-16B	180.56	6.99	173.57	ND
M-17	182.86	7.97	174.89	ND
M-18	187.26	7.51	179.75	ND
M-20A	183.18	7.77	175.41	ND
M-20B	183.67	8.25	175.42	ND
M-21A	185.88	6.12	179.76	ND
M-21BR	185.80	6.13	179.67	ND
M-22A	184.33	6.84	177.49	ND
M-22B	184.61	9.61	175.00	ND
M-23AR	185.15	8.56	176.59	ND
M-23BR	185.10	8.49	176.61	ND
M-24A	187.15	7.64	179.51	ND
M-24B	187.19	7.71	179.48	ND
M-25A	186.76	9.41	177.35	ND
M-25B	186.15	8.89	177.26	ND
M-26	187.31	7.62	179.69	ND
M-27A	186.44	6.59	179.85	ND
M-27B	187.06	7.2	179.86	ND
M-28R	186.62	6.55	180.07	ND
M-29	186.67	6.64	180.03	ND
M-30A	187.24	7.55	179.69	ND
M-30B	187.31	7.65	179.66	ND
M-31	187.50	8.9	178.60	ND
M-32AR	186.12	6.45	179.67	ND
M-32B	186.01	6.34	179.67	ND
M-33B	176.39	7.93	168.46	ND

Table 1
First Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
February 2, 2006				
PZ-01A ^[2]	182.44	11.84	170.60	ND
PZ-01B	182.81	12.06	170.75	ND
PZ-02A	180.74	10.42	170.32	ND
PZ-02B	180.59	10.21	170.38	ND
PZ-03A	177.22	8.19	169.03	ND
PZ-05A	173.05	11.21	161.84	ND
PZ-05B	174.07	11.91	162.16	ND
PZ-06A	174.77	9.21	165.56	ND
PZ-06B	174.72	8.46	166.26	ND
PZ-08A	176.16	6.21	169.95	ND
PZ-08B	175.87	5.92	169.95	ND
PZ-09A	177.74	7.24	170.50	ND
PZ-09B	177.26	6.51	170.75	ND
PZ-10A	179.20	7.55	171.65	ND
PZ-10B	178.61	6.99	171.62	ND
PZ-11A	179.82	8.16	171.66	ND
PZ-11B	179.59	7.87	171.72	ND
PZ-13A	181.14	7.96	173.18	ND
PZ-13B	181.67	8.36	173.31	ND
PZ-14A	183.22	8.47	174.75	ND
PZ-14B	182.98	8.1	174.88	ND
PZ-15A	185.03	9.73	175.30	ND
PZ-15B	184.84	9.18	175.66	ND
PZ-17A	186.23	8.96	177.27	ND
ITW-23	173.06	10.87	162.19	ND
OW-01	187.35	8.21	179.14	ND
OW-02	187.40	9.07	178.33	ND
PW-01	186.84	7.60	179.24	0.31

Notes:

ND = Not Detected

NA = Not Applicable

gpm = gallons per minute

feet msl = feet above mean sea level

feet TOC = feet below top of casing

^[1] Well top of casing elevations and locations were resurveyed in July 2004 by GeoTrans. Elevation datum is NGVD 1929 stated in U.S. Survey Feet.

^[2] These wells were previously designated P-##. The well identifications were updated as shown.

Table 2
Second Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
April 30, 2006				
EW-01	180.45	12.11	168.34	ND
EW-02	178.89	11.44	167.45	ND
EW-03	175.82	16.76	159.06	ND
EW-05	171.33	11.78	159.55	ND
EW-06	173.02	13.21	159.81	ND
EW-08	174.10	8.04	166.06	ND
EW-09	176.17	8.95	167.22	ND
EW-10	177.33	13.23	164.10	ND
EW-11	178.30	22.35	155.95	ND
EW-13	179.99	10.66	169.33	ND
EW-14	181.84	14.71	167.13	ND
EW-15	182.94	23.7	159.24	ND
EW-16	184.24	14.33	169.91	ND
EW-17	184.76	19.56	165.20	ND
M-01	184.10	10.73	173.37	ND
M-03A	182.21	11.41	170.80	ND
M-03BR	179.60	8.9	170.70	ND
M-04	177.23	7.96	169.27	ND
M-05B	182.18	12.32	169.86	ND
M-06	180.50	11.28	169.22	ND
M-07A	177.09	9.28	167.81	ND
M-07B	176.92	9.16	167.76	ND
M-08R	175.71	9.16	166.55	ND
M-09AR	173.80	10.73	163.07	ND
M-09BR	173.22	10.07	163.15	ND
M-10	173.93	6.34	167.59	ND
M-11B	187.99	12.67	175.32	ND
M-12	181.06	8.7	172.36	ND
M-14	187.16	10.19	176.97	ND
M-15B	181.89	7.69	174.20	ND
M-16A	180.96	8.66	172.30	ND
M-16B	180.56	8.16	172.40	ND
M-17	182.86	8.89	173.97	ND
M-18	187.26	8.78	178.48	ND
M-20A	183.18	8.6	174.58	ND
M-20B	183.67	9.08	174.59	ND
M-21A	185.88	7.4	178.48	ND
M-21BR	185.80	7.3	178.50	ND
M-22A	184.33	7.61	176.72	ND
M-22B	184.61	10.35	174.26	ND
M-23AR	185.15	9.55	175.60	ND
M-23BR	185.10	9.49	175.61	ND
M-24A	187.15	8.87	178.28	ND
M-24B	187.19	8.93	178.26	ND
M-25A	186.76	10.55	176.21	ND
M-25B	186.15	10.03	176.12	ND
M-26	187.31	8.66	178.65	ND
M-27A	186.44	7.78	178.66	ND
M-27B	187.06	8.4	178.66	ND
M-28R	186.62	7.85	178.77	ND
M-29	186.67	7.98	178.69	ND
M-30A	187.24	8.84	178.40	ND
M-30B	187.31	8.93	178.38	ND
M-31	187.50	10.06	177.44	ND

Table 2
Second Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
April 30, 2006				
M-32AR	186.12	7.64	178.48	ND
M-32B	186.01	7.55	178.46	ND
M-33B	176.39	9.03	167.36	ND
PZ-01A ^[2]	182.44	13.07	169.37	ND
PZ-01B	182.81	13.38	169.43	ND
PZ-02A	180.74	12.12	168.62	ND
PZ-02B	180.59	11.87	168.72	ND
PZ-03A	177.22	10.04	167.18	ND
PZ-05A	173.05	12.69	160.36	ND
PZ-05B	174.07	13.45	160.62	ND
PZ-06A	174.77	10.04	164.73	ND
PZ-06B	174.72	10.13	164.59	ND
PZ-08A	176.16	7.42	168.74	ND
PZ-08B	175.87	7.15	168.72	ND
PZ-09A	177.74	8.32	169.42	ND
PZ-09B	177.26	7.83	169.43	ND
PZ-10A	179.20	9.2	170.00	ND
PZ-10B	178.61	8.56	170.05	ND
PZ-11A	179.82	8.79	171.03	ND
PZ-11B	179.59	8.44	171.15	ND
PZ-13A	181.14	9.35	171.79	ND
PZ-13B	181.67	9.77	171.90	ND
PZ-14A	183.22	9.6	173.62	ND
PZ-14B	182.98	9.16	173.82	ND
PZ-15A	185.03	10.65	174.38	ND
PZ-15B	184.84	10.15	174.69	ND
PZ-17A	186.23	10.03	176.20	ND
ITW-23	173.06	12.41	160.65	ND
OW-01	187.35	9.43	177.92	ND
OW-02	187.40	10.16	177.24	ND
PW-01	186.84	8.79	178.05	ND

Notes:

ND = Not Detected

NA = Not Applicable

NM = Not Measured

gpm = gallons per minute

feet msl = feet above mean sea level

feet TOC = feet below top of casing

^[1] Well top of casing elevations and locations were resurveyed in July 2004 by GeoTrans. Elevation datum is NGVD 1929 stated in U.S. Survey Feet.

^[2] These wells were previously designated P-##. The well identifications were updated as shown.

Table 3
Third Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
July 31, 2006				
EW-01	180.45	14.68	165.77	ND
EW-02	178.89	15.19	163.70	ND
EW-03	175.82	19.35	156.47	ND
EW-05	171.33	13.38	157.95	ND
EW-06	173.02	14.8	158.22	ND
EW-08	174.10	11.32	162.78	ND
EW-09	176.17	8.79	167.38	ND
EW-10	177.33	10.93	166.40	ND
EW-11	178.30	17.86	160.44	ND
EW-13	179.99	11.85	168.14	ND
EW-14	181.84	20.38	161.46	ND
EW-15	182.94	24.35	158.59	ND
EW-16	184.24	9.69	174.55	ND
EW-17	184.76	23.31	161.45	ND
M-01	184.10	12.83	171.27	ND
M-03A	182.21	13.55	168.66	ND
M-03BR	179.60	11.04	168.56	ND
M-04	177.23	9.65	167.58	ND
M-05B	182.18	14.65	167.53	ND
M-06	180.50	13.43	167.07	ND
M-07A	177.09	11.23	165.86	ND
M-07B	176.92	11.43	165.49	ND
M-08R	175.71	10.99	164.72	ND
M-09AR	173.80	12.27	161.53	ND
M-09BR	173.22	11.62	161.60	ND
M-10	173.93	8.03	165.90	ND
M-11B	187.99	14.83	173.16	ND
M-12	181.06	10.59	170.47	ND
M-14	187.16	12.23	174.93	ND
M-15B	181.89	10.42	171.47	ND
M-16A	180.96	10.19	170.77	ND
M-16B	180.56	9.7	170.86	ND
M-17	182.86	10.43	172.43	ND
M-18	187.26	10.58	176.68	ND
M-20A	183.18	9.88	173.30	ND
M-20B	183.67	10.36	173.31	ND
M-21A	185.88	8.78	177.10	ND
M-21BR	185.80	8.68	177.12	ND
M-22A	184.33	9.18	175.15	ND
M-22B	184.61	11.97	172.64	ND
M-23AR	185.15	10.64	174.51	ND
M-23BR	185.10	10.62	174.48	ND
M-24A	187.15	10.31	176.84	ND
M-24B	187.19	10.36	176.83	ND
M-25A	186.76	9.92	176.84	ND
M-25B	186.15	11.38	174.77	ND
M-26	187.31	10.04	177.27	ND
M-27A	186.44	9.11	177.33	ND
M-27B	187.06	9.73	177.33	ND
M-28R	186.62	9.23	177.39	ND
M-29	186.67	9.44	177.23	ND

Table 3
Third Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
July 31, 2006				
M-30A	187.24	10.36	176.88	ND
M-30B	187.31	10.46	176.85	ND
M-31	187.50	11.56	175.94	ND
M-32AR	186.12	9.04	177.08	ND
M-32B	186.01	8.95	177.06	ND
M-33B	176.39	11.81	164.58	ND
PZ-01A ^[2]	182.44	15.4	167.04	ND
PZ-01B	182.81	15.7	167.11	ND
PZ-02A	180.74	13.43	167.31	ND
PZ-02B	180.59	13.85	166.74	ND
PZ-03A	177.22	12.05	165.17	ND
PZ-05A	173.05	12.15	160.90	ND
PZ-05B	174.07	14.9	159.17	ND
PZ-06A	174.77	12.53	162.24	ND
PZ-06B	174.72	12.15	162.57	ND
PZ-08A	176.16	9.21	166.95	ND
PZ-08B	175.87	8.93	166.94	ND
PZ-09A	177.74	10.02	167.72	ND
PZ-09B	177.26	9.61	167.65	ND
PZ-10A	179.20	10.74	168.46	ND
PZ-10B	178.61	10.2	168.41	ND
PZ-11A	179.82	10.48	169.34	ND
PZ-11B	179.59	10.14	169.45	ND
PZ-13A	181.14	10.94	170.20	ND
PZ-13B	181.67	11.41	170.26	ND
PZ-14A	183.22	11.33	171.89	ND
PZ-14B	182.98	10.87	172.11	ND
PZ-15A	185.03	11.87	173.16	ND
PZ-15B	184.84	11.46	173.38	ND
PZ-17A	186.23	11.43	174.80	ND
ITW-23	173.06	13.88	159.18	ND
OW-01	187.35	10.99	176.36	ND
OW-02	187.40	11.66	175.74	ND
PW-01	186.84	10.36	176.48	ND

Notes:

ND = Not Detected

NA = Not Applicable

gpm = gallons per minute

feet msl = feet above mean sea level

feet TOC = feet below top of casing

^[1] Well top of casing elevations and locations were resurveyed in July 2004 by GeoTrans. Elevation datum is NGVD 1929 stated in U.S. Survey Feet.

^[2] These wells were previously designated P-#. The well identifications were updated as shown.

Table 4
Fourth Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
October 31, 2006				
EW-01	180.45	14.39	166.06	ND
EW-02	178.89	15.69	163.20	ND
EW-03	175.82	14.3	161.52	ND
EW-05	171.33	14.02	157.31	ND
EW-06	173.02	17.98	155.04	ND
EW-08	174.10	13.72	160.38	ND
EW-09	176.17	11.03	165.14	ND
EW-10	177.33	14.49	162.84	ND
EW-11	178.30	13.65	164.65	ND
EW-13	179.99	12.75	167.24	ND
EW-14	181.84	14.56	167.28	ND
EW-15	182.94	17.37	165.57	ND
EW-16	184.24	14.69	169.55	ND
EW-17	184.76	23.65	161.11	ND
M-01	184.10	12.64	171.46	ND
M-03A	182.21	13.16	169.05	ND
M-03BR	179.60	10.66	168.94	ND
M-04	177.23	8.25	168.98	ND
M-05B	182.18	14.45	167.73	ND
M-06	180.50	13.14	167.36	ND
M-07A	177.09	10.84	166.25	ND
M-07B	176.92	10.71	166.21	ND
M-08R	175.71	10.43	165.28	ND
M-09AR	173.80	11.64	162.16	ND
M-09BR	173.22	10.98	162.24	ND
M-10	173.93	7.54	166.39	ND
M-11B	187.99	14.66	173.33	ND
M-12	181.06	10.84	170.22	ND
M-14	187.16	11.86	175.30	ND
M-15B	181.89	9.21	172.68	ND
M-16A	180.96	10.13	170.83	ND
M-16B	180.56	9.62	170.94	ND
M-17	182.86	9.99	172.87	ND
M-18	187.26	9.54	177.72	ND
M-20A	183.18	9.79	173.39	ND
M-20B	183.67	10.26	173.41	ND
M-21A	185.88	7.97	177.91	ND
M-21BR	185.80	7.88	177.92	ND
M-22A	184.33	8.81	175.52	ND
M-22B	184.61	11.91	172.70	ND
M-23AR	185.15	10.74	174.41	ND
M-23BR	185.10	10.67	174.43	ND
M-24A	187.15	9.67	177.48	ND
M-24B	187.19	9.73	177.46	ND
M-25A	186.76	11.35	175.41	ND
M-25B	186.15	10.85	175.30	ND
M-26	187.31	9.06	178.25	ND
M-27A	186.44	8.22	178.22	ND
M-27B	187.06	8.84	178.22	ND
M-28R	186.62	8.38	178.24	ND
M-29	186.67	8.59	178.08	ND
M-30A	187.24	9.48	177.76	ND
M-30B	187.31	9.58	177.73	ND
M-31	187.50	10.72	176.78	ND
M-32AR	186.12	8.41	177.71	ND
M-32B	186.01	7.28	178.73	ND
M-33B	176.39	11.26	165.13	ND

Table 4
Fourth Quarter 2006 Water Levels and DNAPL Data
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	Top of Casing Elevation ^[1] (feet msl)	Depth to Water (feet TOC)	Groundwater Elevation (feet msl)	DNAPL Thickness (feet)
October 31, 2006				
PZ-01A ^[2]	182.44	14.89	167.55	ND
PZ-01B	182.81	15.29	167.52	ND
PZ-02A	180.74	13.94	166.80	ND
PZ-02B	180.59	13.83	166.76	ND
PZ-03A	177.22	11.53	165.69	ND
PZ-05A	173.05	13.69	159.36	ND
PZ-05B	174.07	14.45	159.62	ND
PZ-06A	174.77	11.55	163.22	ND
PZ-06B	174.72	11.47	163.25	ND
PZ-08A	176.16	9.05	167.11	ND
PZ-08B	175.87	8.71	167.16	ND
PZ-09A	177.74	10.07	167.67	ND
PZ-09B	177.26	9.48	167.78	ND
PZ-10A	179.20	10.71	168.49	ND
PZ-10B	178.61	10.13	168.48	ND
PZ-11A	179.82	10.59	169.23	ND
PZ-11B	179.59	10.2	169.39	ND
PZ-13A	181.14	11.02	170.12	ND
PZ-13B	181.67	11.42	170.25	ND
PZ-14A	183.22	10.75	172.47	ND
PZ-14B	182.98	10.43	172.55	ND
PZ-15A	185.03	12.09	172.94	ND
PZ-15B	184.84	11.45	173.39	ND
PZ-17A	186.23	10.89	175.34	ND
ITW-23	173.06	13.4	159.66	ND
OW-01	187.35	10.18	177.17	ND
OW-02	187.40	10.89	176.51	ND
PW-01	186.84	9.57	177.27	ND

Notes:

ND = Not Detected

NA = Not Applicable

NM = Not Measured

gpm = gallons per minute

feet msl = feet above mean sea level

feet TOC = feet below top of casing

^[1] Well top of casing elevations and locations were resurveyed in July 2004 by GeoTrans. Elevation datum is NGVD 1929 stated in U.S. Survey Feet.

^[2] These wells were previously designated P-##. The well identifications were Updated as shown.

Table 5
Extraction Well Flow Rates: January through December 2006
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	December 30, 2005		February 28, 2006		March 31, 2006		First Quarter Average Flow Rate (gpm)
	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	
EW-01	3,387,261	3.1	4,039,555	4.8	4,253,827	5.1	6.61
EW-02	419,676	2.8	609,149	1.4	671,645	1.4	1.92
EW-03	4,221,138	2.6	4,408,590	1.0	4,453,230	1.0	1.77
EW-05	2,276,792	1.9	2,451,560	1.4	2,514,056	1.4	1.81
EW-06	983,842	1.8	1,093,319	0.5	1,120,103	0.6	1.04
EW-08	3,638,726	2.6	3,972,595	0.9	3,979,231	0.9	2.60
EW-09	5,235,939	2.4	5,373,511	0.6	5,401,559	0.7	1.26
EW-10	4,009,613	2.4	4,131,855	0.2	4,140,783	0.2	1.00
EW-11	1,803,968	2.3	1,971,175	1.1	2,024,743	1.2	1.68
EW-13	3,895,666	2.4	4,096,550	1.3	4,159,046	1.4	2.01
EW-14	2,473,624	2.7	2,640,822	0.4	2,763,142	0.5	2.21
EW-15	2,989,896	2.6	3,119,624	0.9	3,164,264	1.0	1.33
EW-16	2,107,358	2.7	2,271,723	1.7	2,352,075	1.8	1.87
EW-17	7,454,159	1.1	7,565,615	1.2	7,619,183	1.2	1.26

Well ID	April 30, 2006		May 31, 2006		June 30, 2006		Second Quarter Average Flow Rate (gpm)
	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	
EW-01	4,462,988	2.7	4,583,516	3.2	4,700,156	2.9	3.4
EW-02	730,362	2.1	841,962	2.6	954,282	2.6	2.2
EW-03	4,493,171	2.7	4,613,699	2.8	4,730,339	2.8	2.1
EW-05	2,578,429	2.0	2,663,245	2.0	2,749,645	2.0	1.8
EW-06	1,138,340	2.0	1,227,620	1.6	1,305,380	1.8	1.4
EW-08	4,004,276	2.5	4,120,340	2.7	4,228,340	2.7	1.9
EW-09	5,507,420	2.5	5,614,556	2.8	5,731,196	2.9	2.5
EW-10	4,151,080	2.6	4,262,680	2.4	4,375,000	2.5	1.8
EW-11	2,073,596	2.7	2,189,660	2.3	2,297,660	2.5	2.1
EW-13	4,211,088	2.7	4,331,616	2.4	4,435,296	2.6	2.1
EW-14	2,676,329	3.1	2,810,249	3.1	2,935,529	2.9	1.3
EW-15	3,201,009	2.6	3,321,537	2.6	3,425,217	2.6	2.0
EW-16	2,423,220	2.7	2,534,820	2.7	2,642,820	2.7	2.2
EW-17	7,735,182	1.2	7,784,286	1.2	7,836,126	1.2	1.7

Well ID	July 31, 2006		August 31, 2006		September 29, 2006		Third Quarter Average Flow Rate (gpm)
	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	
EW-01	4,809,477	3.1	4,921,077	2.5	5,029,653	2.6	2.5
EW-02	1,070,346	2.6	1,177,482	2.4	1,256,970	2.3	2.3
EW-03	4,841,939	2.5	4,953,539	2.5	5,036,483	2.4	2.3
EW-05	2,847,853	2.2	2,937,133	1.9	3,006,253	2.0	2.0
EW-06	1,408,052	2.3	1,501,796	2.0	1,570,916	2.0	2.0
EW-08	4,375,476	2.4	4,442,612	2.4	4,529,012	2.5	2.3
EW-09	5,842,796	2.5	5,958,860	2.8	6,048,716	2.6	2.4
EW-10	4,468,744	2.1	4,571,416	2.4	4,657,816	2.5	2.2
EW-11	2,395,868	2.2	2,503,004	2.5	2,589,404	2.5	2.2
EW-13	4,546,896	2.5	4,654,032	2.4	4,743,888	2.6	2.4
EW-14	3,078,377	3.2	3,194,441	2.8	3,291,209	2.8	2.7
EW-15	3,536,817	2.5	3,643,953	2.5	3,726,897	2.4	2.3
EW-16	2,727,636	1.9	2,825,844	2.4	2,905,332	2.3	2.0
EW-17	7,889,694	1.2	7,938,798	1.1	7,980,270	1.2	1.1

Table 5
Extraction Well Flow Rates: January through December 2006
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID	October 31, 2006		November 30, 2006		December 29, 2006		Fourth Quarter Average Flow Rate (gpm)
	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	Totalizer (gallons)	Instantaneous Flow Rate (gpm)	
EW-01	5,190,357	3.6	5,288,565	2.9	5,405,493	2.8	2.9
EW-02	1,373,034	2.6	1,471,242	2.4	1,575,642	2.5	2.4
EW-03	5,170,403	3.0	5,277,539	2.7	5,394,467	2.8	2.7
EW-05	3,095,533	2.1	3,184,813	2.0	3,272,509	2.1	2.0
EW-06	1,660,196	2.0	1,758,404	2.1	1,841,924	2.0	2.1
EW-08	4,648,820	2.6	4,761,140	2.6	4,873,892	2.7	2.6
EW-09	6,164,780	2.6	6,280,844	2.6	6,393,596	2.7	2.6
EW-10	4,760,488	2.3	4,881,016	2.5	4,981,240	2.4	2.5
EW-11	2,723,324	3.0	2,803,676	2.4	2,908,076	2.5	2.4
EW-13	4,882,272	3.1	4,984,944	2.7	5,101,872	2.8	2.7
EW-14	3,407,273	2.6	3,541,193	2.8	3,653,945	2.7	2.8
EW-15	3,856,353	2.9	3,967,953	2.7	4,076,529	2.6	2.7
EW-16	3,039,252	3.0	3,164,244	2.9	3,285,348	2.9	2.9
EW-17	8,029,374	1.2	8,078,478	1.1	8,128,590	1.2	1.1

Notes:

gpm = gallons per minute

Some of the wells exceeded the 10,000,000 gallon limit of their totalizer. Readings were restarted at zero.

The flows in February and March are lower than normal due to maintenance activities.



Table 6
Summary of Required Analyses by Well
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Wells	BTEX	Select SVOCs and PAHs	Arsenic and Chromium (total and dissolved)
ESE-001		X	X
EW-01		X	
EW-02	X	X	
EW-03		X	
EW-05		X	X
EW-06		X	X
EW-08		X	X
EW-09		X	X
EW-10		X	X
EW-11		X	X
EW-13		X	X
EW-14		X	X (Arsenic only)
EW-15		X	X
EW-16	X	X	X
EW-17	X		X
ITW-12		X	X
ITW-20		X	X
M-05B		X	
M-33B		X	X

Notes:

BTEX = benzene, toluene, ethylbenzene, total xylenes.

SVOCs=Semivolatile Organic Compounds

PAHs = polycyclic aromatic hydrocarbons.



Table 7
Summary of Groundwater Quality Monitoring Data for Extraction Wells
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analytes	Units	EW-01 12/13/2006	EW-02 12/13/2006	EW-03 12/13/2006	EW-05 12/13/2006	EW-06 12/13/2006	EW-08 12/13/2006	EW-09 12/13/2006	EW-10 12/13/2006	EW-11 12/13/2006	EW-13 12/13/2006	EW-14 12/13/2006	EW-15 12/13/2006	EW-16 12/13/2006	EW-17 12/13/2006
Metals (Method 6020)															
ARSENIC, SOLUBLE	µg/L	NA	NA	NA	47	2.8	9.2	21	0.73	36	27	33	77	4700	6.6
ARSENIC, TOTAL	µg/L	NA	NA	NA	42	1.6	11	64	60	31	27	42	79	5100	7.2
CHROMIUM, SOLUBLE	µg/L	NA	NA	NA	1.0 J	3.8	U	U	U	1.4 J	1.6 J	NA	1.5 J	5	1.2 J
CHROMIUM, TOTAL	µg/L	NA	NA	NA	U	2.8	U	U	49	8.9	U	NA	U	5.3	U
Volatile Organic Compounds (Method 8260B)															
BENZENE	µg/L	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41 J	83
ETHYLBENZENE	µg/L	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	89
TOLUENE	µg/L	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.72 J	180
M,P-XYLENES	µg/L	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	160
O-XYLENE	µg/L	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	82
Calculated Total BTEX ⁽¹⁾	µg/L	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.73	594
Semivolatile Organic Compounds (Method 8270C)															
2,4-DIMETHYLPHENOL	µg/L	U	U	U	U	U	U	U	U	U	27 J	14	U	0.7 J	NA
2-METHYLPHENOL	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
4-METHYLPHENOL	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
PENTACHLOROPHENOL	µg/L	U	U	U	U	U	U	U	U	U	0.84 J	1.1 J	11 J	9100	NA
PHENOL	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
Polynuclear Aromatic Hydrocarbons (PAHs) (Method 8270C)															
2-METHYLNAPHTHALENE	µg/L	U	U	6.1	U	U	U	U	U	U	410	400	64	150	NA
ACENAPHTHENE	µg/L	U	U	38	11	U	2.8 J	5.7	U	9.4	310	290	100	220	NA
ACENAPHTHYLENE	µg/L	U	U	0.51 J	U	U	U	U	U	U	13	10	1.2 J	4.2 J	NA
ANTHRACENE	µg/L	U	U	0.95 J	0.47 J	U	U	0.3 J	U	U	7.1	19	8.9	28	NA
BENZO(A)ANTHRACENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
BENZO(A)PYRENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
BENZO(B)FLUORANTHENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
BENZO(G,H,I)PERYLENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
BENZO(K)FLUORANTHENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
CARBAZOLE	µg/L	U	U	36	1.5 J	U	6	U	U	3.8 J	390	320	49	84	NA
CHRYSENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
DIBENZO(A,H)ANTHRACENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
DIBENZOFURAN	µg/L	U	U	23	2.3 J	U	2.9 J	2.3 J	U	3 J	140	140	87	150	NA
FLUORANTHENE	µg/L	U	U	U	1.5 J	0.55 J	U	0.7 J	U	0.55 J	4.3 J	9.5	3.8 J	14	NA
FLUORENE	µg/L	U	U	23	3.6 J	U	4.1 J	4.5 J	U	4.2 J	190	190	110	210	NA
INDENO(1,2,3-CD)PYRENE	µg/L	U	U	U	U	U	U	U	U	U	U	U	U	U	NA
NAPHTHALENE	µg/L	U	U	87	7.6	U	U	U	U	U	3800	1400	170	300	NA
PHENANTHRENE	µg/L	U	U	5.8	0.59 J	U	0.89 J	U	U	0.41 J	91	130	54	220	NA
PYRENE	µg/L	U	U	U	0.55 J	U	U	U	U	U	1.5 J	2.4 J	0.9 J	2.3 J	NA
Calculated Total PAHs ⁽¹⁾	µg/L	ND	ND	220.36	29.11	0.55	16.69	13.5	ND	21.36	5356.9	2910.9	648.8	1382.5	NA
Calculated Total Carcinogenic PAHs ⁽²⁾	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA

Notes:

NA - not analyzed

ND - none of the analyzed constituents were detected.

BOLD indicates detected result.

U - indicates compound was analyzed for, but not detected above the reporting limit

J - indicates that result is estimated

µg/L - micrograms per liter

⁽¹⁾ Total BTEX and total PAHs were calculated using a value of zero for non-detect results.

⁽²⁾ Total carcinogenic PAHs includes: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

A value of zero was used for non-detect results.

Table 8
Summary of Groundwater Quality Monitoring Data for Downgradient and Offsite Wells
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Analytes	Remedial Goal ⁽²⁾	Florida GCTL ⁽³⁾	Units	Downgradient Wells		Offsite Wells		
				M-05B	M-33B	ESE-001	ITW-12 - AVG	ITW-20
				12/14/2006	12/14/2006	12/14/2006	12/14/2006	12/14/2006
Metals (Method 6020)								
ARSENIC, SOLUBLE	50	10 ⁽⁴⁾	µg/L	NA	U	U	0.56	0.62
ARSENIC, TOTAL	50	10 ⁽⁴⁾	µg/L	NA	0.42 J	U	0.38 J	0.83
CHROMIUM, SOLUBLE	50	100 ⁽⁴⁾	µg/L	NA	1.3 JB	1.9 JB	1.3 JB	3.4 B
CHROMIUM, TOTAL	50	100 ⁽⁴⁾	µg/L	NA	U	U	U	U
Volatile Organic Compounds (Method 8260B)								
BENZENE	1	1 ⁽⁴⁾	µg/L	NA	NA	NA	NA	NA
ETHYLBENZENE	--	30 ⁽⁵⁾	µg/L	NA	NA	NA	NA	NA
TOLUENE	--	40 ⁽⁵⁾	µg/L	NA	NA	NA	NA	NA
M,P-XYLENES	--	--	µg/L	NA	NA	NA	NA	NA
O-XYLENE	--	--	µg/L	NA	NA	NA	NA	NA
Calculated Total BTEX ⁽¹⁾	--	20 ^(b)	µg/L	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (Method 8270C)								
2,4-DIMETHYLPHENOL	--	140	µg/L	U	U	U	U	U
2-METHYLPHENOL	--	35	µg/L	U	U	U	U	U
3 & 4-METHYLPHENOL	--	35/3.5 ⁽⁶⁾	µg/L	U	U	U	U	U
PENTACHLOROPHENOL	0.1	1 ⁽⁴⁾	µg/L	U	U	U	U	U
PHENOL	2,630	10	µg/L	U	U	U	U	U
Polynuclear Aromatic Hydrocarbons (PAHs) (Method 8270C)								
2-METHYLNAPHTHALENE	--	28	µg/L	U	31	U	1.45 J	0.52 J
ACENAPHTHENE	260	20	µg/L	U	47	0.62 J	4.05	0.61 J
ACENAPHTHYLENE	130	210	µg/L	U	0.73 J	U	U	U
ANTHRACENE	1310	2100	µg/L	U	2.2 J	U	U	U
BENZO(A)ANTHRACENE	--	0.05	µg/L	U	U	U	U	U
BENZO(A)PYRENE	--	0.2 ⁽⁴⁾	µg/L	U	U	U	U	U
BENZO(B)FLUORANTHENE	--	0.05	µg/L	U	U	U	U	U
BENZO(G,H,I)PERYLENE	--	210	µg/L	U	U	U	U	U
BENZO(K)FLUORANTHENE	--	0.5	µg/L	U	U	U	U	U
CARBAZOLE	--	1.8	µg/L	U	87	U	U	U
CHRYSENE	--	4.8	µg/L	U	U	U	U	U
DIBENZO(A,H)ANTHRACENE	--	0.005	µg/L	U	U	U	U	U
DIBENZOFURAN	--	28	µg/L	U	58	U	2.2 J	U
FLUORANTHENE	--	280	µg/L	U	U	U	U	U
FLUORENE	323	280	µg/L	U	52	U	2.4 J	U
INDENO(1,2,3-CD)PYRENE	--	0.05	µg/L	U	U	U	U	U
NAPHTHALENE	18	14	µg/L	0.87 J	370	0.49 J	5.2 J	2.8 J
PHENANTHRENE	130	210	µg/L	U	20	U	U	U
PYRENE	130	210	µg/L	U	U	U	U	U
Calculated Total PAHs ⁽⁷⁾	--	--	µg/L	0.87 J	667.93 J	1.11 J	15.3 J	3.93 J
Calculated Total Carcinogenic PAHs ⁽⁸⁾	0.003	--	µg/L	ND	ND	ND	ND	ND

Notes:

U - indicates compound was analyzed for, but not detected above the reporting limit

J - indicates that result is estimated

NA - not analyzed

ND - none of the analyzed constituents were detected.

AVG - Sample and duplicate concentrations were averaged.

µg/L - micrograms per liter

Blue Indicates detected result

Blue Indicates result greater than the Remedial Goal

Blue Indicates result greater than the Florida GCTL

⁽¹⁾ Total BTEX was calculated using a value of zero for non-detect results.

⁽²⁾ The groundwater remedial goal as specified in Table One of the 1990 Record of Decision.

⁽³⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.).

⁽⁴⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

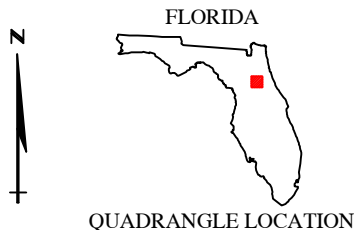
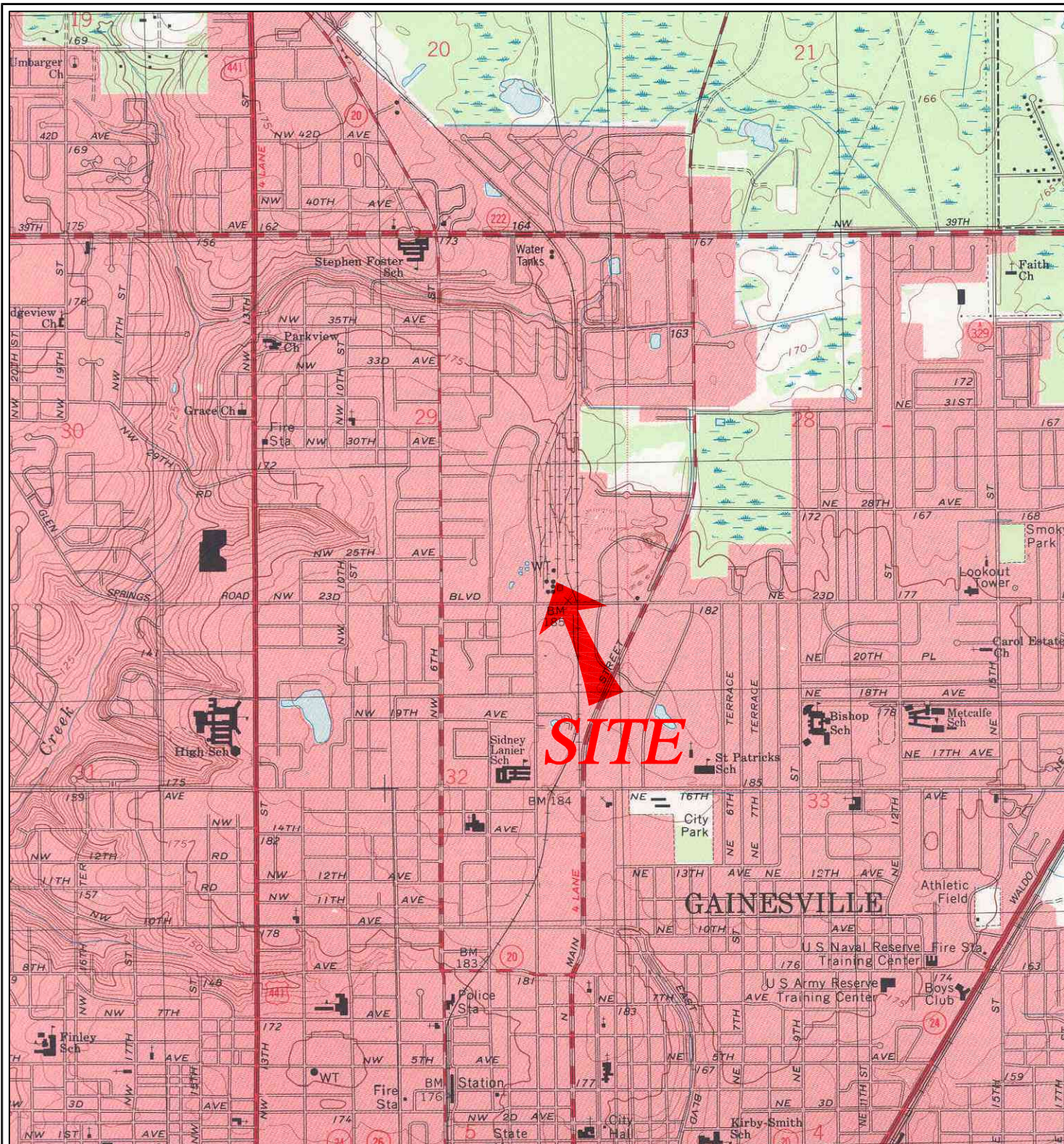
⁽⁵⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁶⁾ 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

⁽⁷⁾ Total PAHs were calculated using a value of zero for non-detect results.

⁽⁸⁾ Total carcinogenic PAHs includes: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. A value of zero was used for non-detect results.

Figures



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
GAINESVILLE EAST, FLORIDA - 1994

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: DAE DATE: 08/04/06
CHKD: LMW DATE: 08/04/06
APPD: NJM DATE: 08/04/06
SCALE: 1" = 1000'
ISSUE DATE:



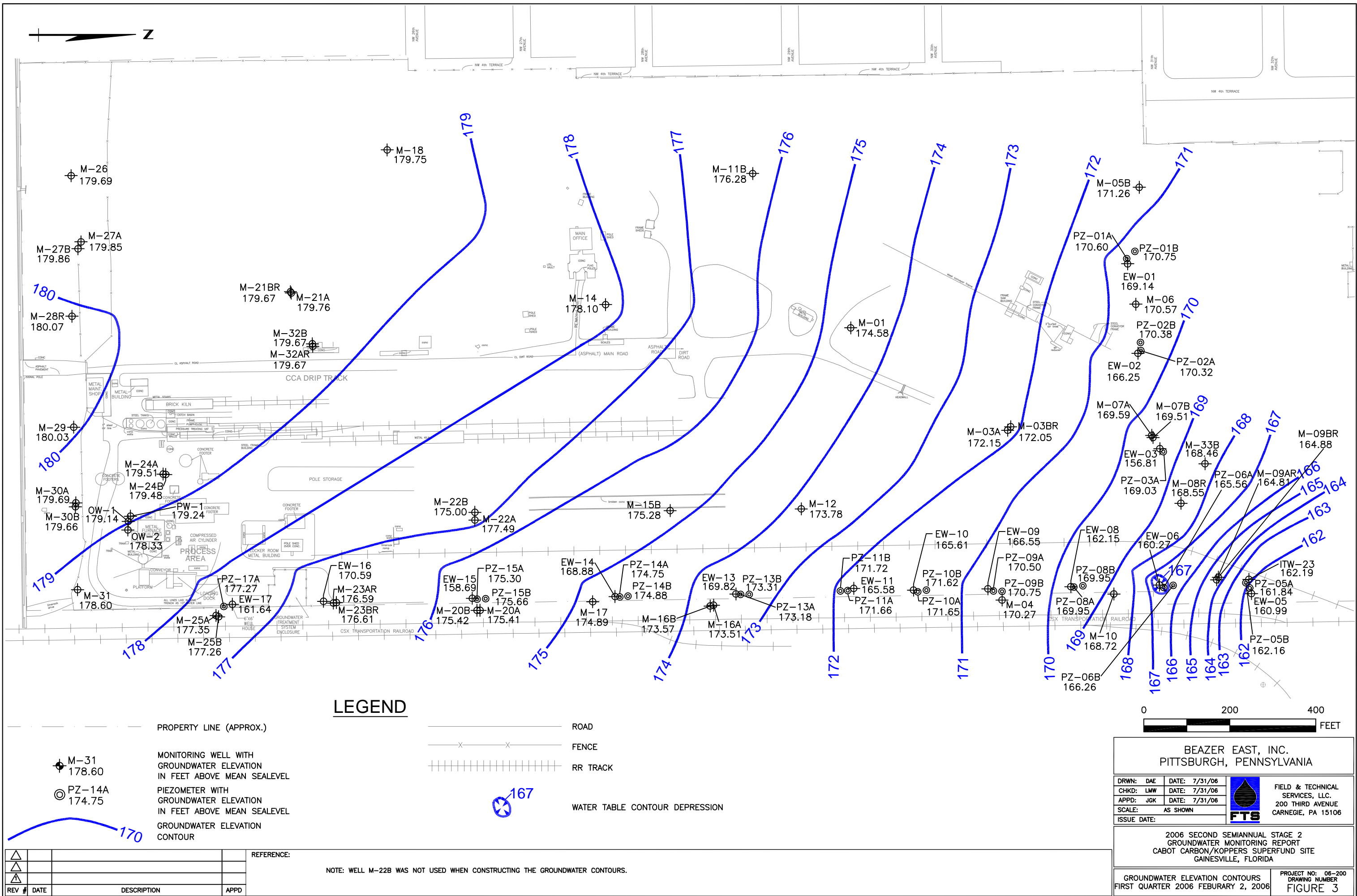
FIELD & TECHNICAL
SERVICES, LLC.
200 THIRD AVENUE
CARNEGIE, PA 15106

2006 SECOND SEMIANNUAL STAGE 2
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

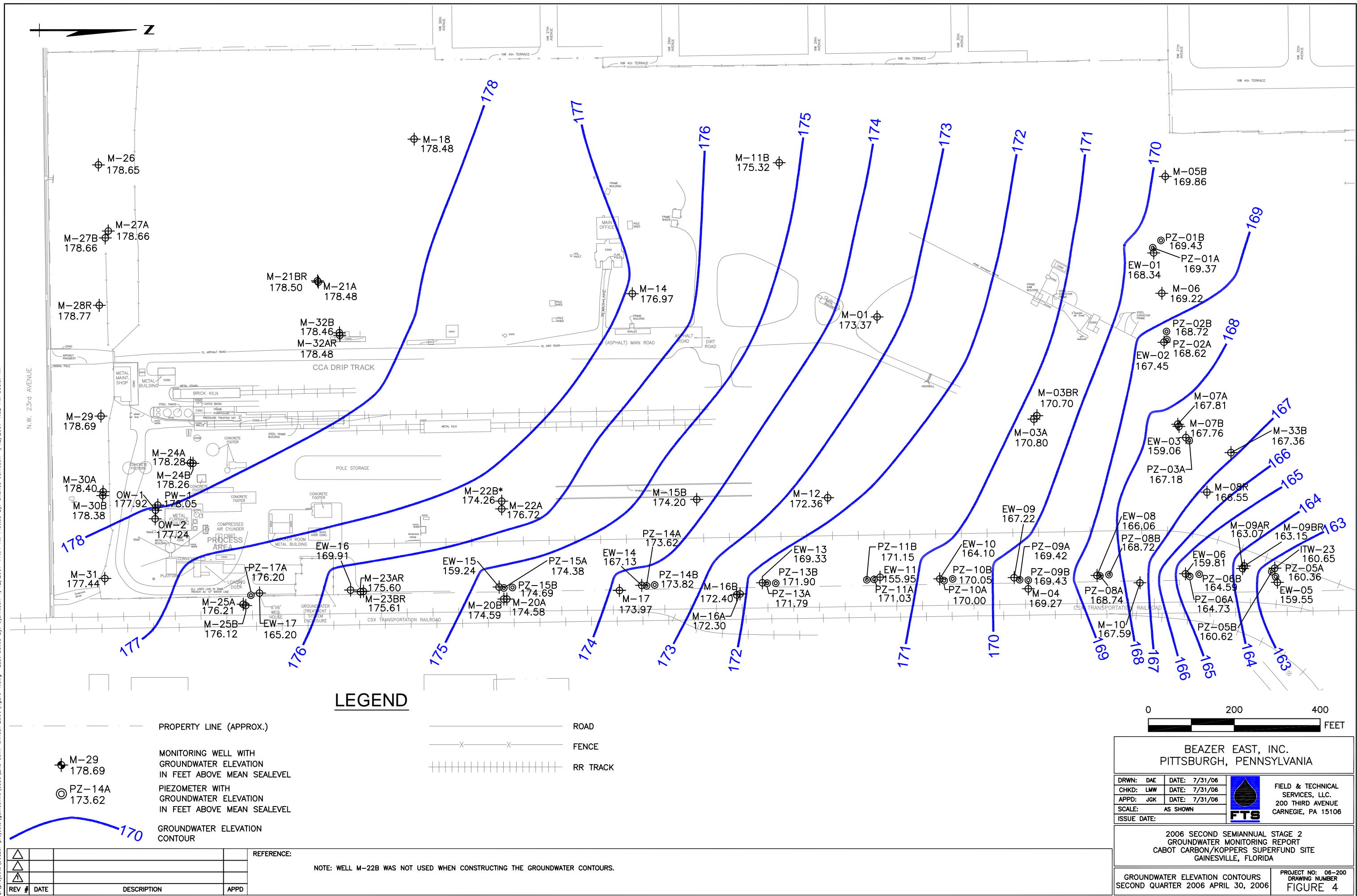
SITE LOCATION MAP

PROJECT NO: 06-200
DRAWING NUMBER
FIGURE 1

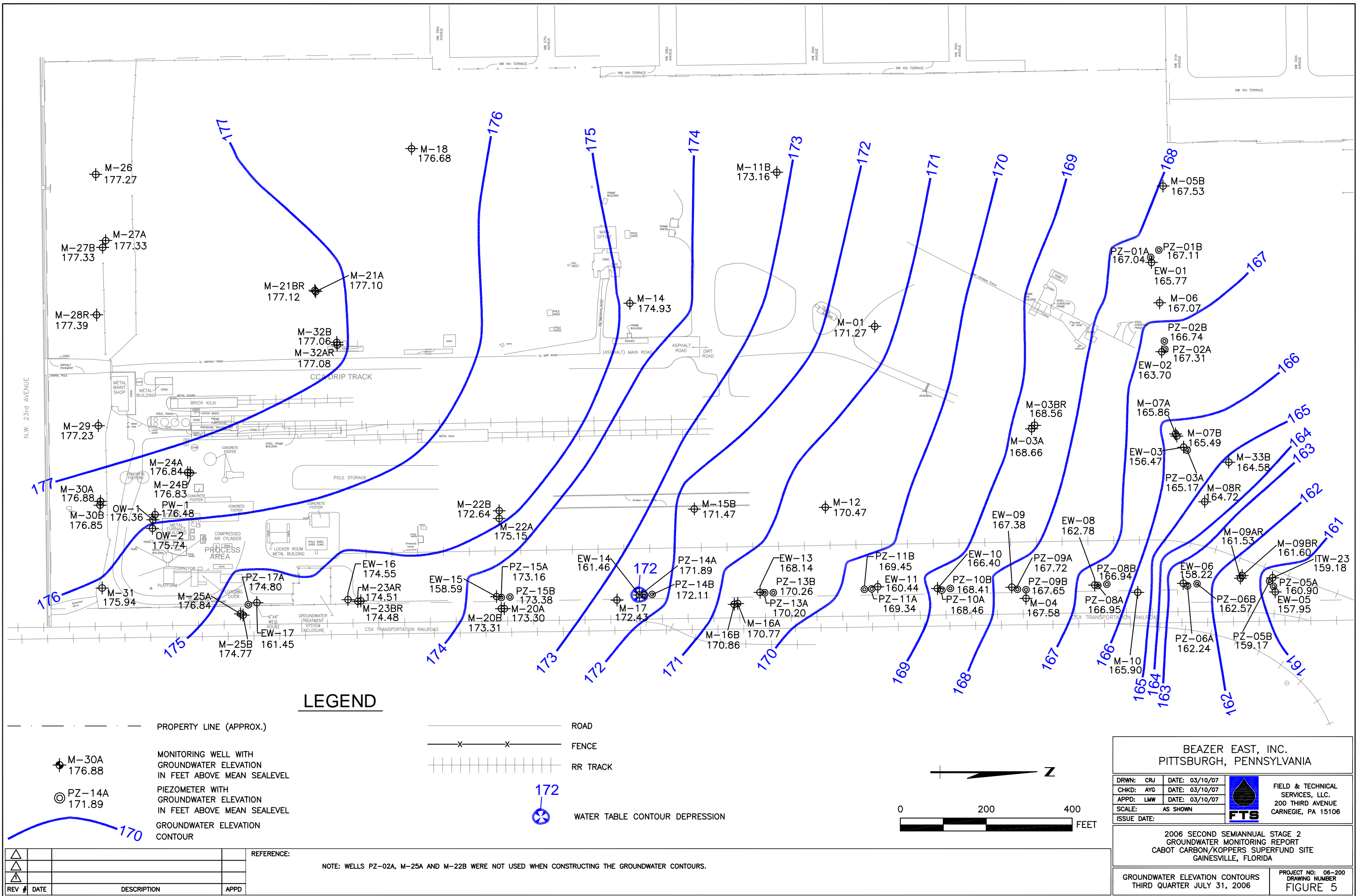
c:\projects\beazer_projects\gainesville\cadd\2nd semi-annual 2006\Figure 3.dwg Last Saved By: Jomason 4/12/2007 11:04 AM Plotted By: Charles Jomason 4/12/2007 1:32 PM Scale: 1:1



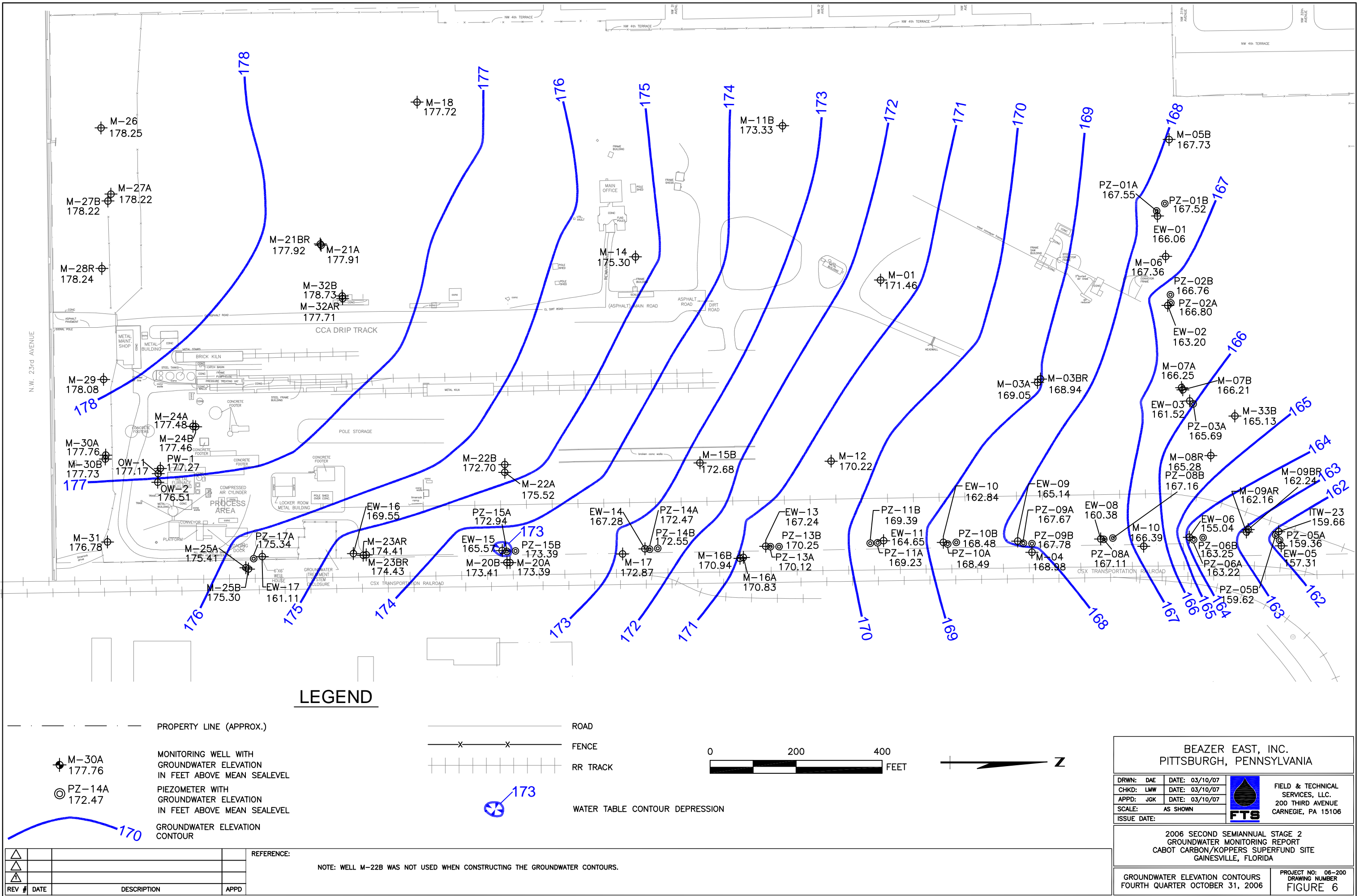
c:\projects\beazer\projects\gainesville\cadd\2nd semi-annual 2006\Figure 4.dwg Last Saved By: Jomason 4/12/2007 11:04 AM Plotted By: Charles Jomason 4/12/2007 1:32 PM Scale: 1:1



c:\projects\beazer\projects\gainesville\cadd\2nd semi-annual 2006\Figure 5.dwg Last Saved By: Jomason 4/12/2007 11:53 AM Plotted By: Charles Jomason 4/12/2007 1:32 PM Scale: 1:1



c:\projects\beazer\projects\gainesville\cadd\2nd semi-annual 2006\Figure 6.dwg Last Saved By: Joneson 4/12/2007 11:11 AM Plotted By: Charles Joneson 4/12/2007 1:32 PM Scale: 1:1



Appendix A

Field Forms

Appendix A
Groundwater Sampling Field Parameters - December 13 and 14, 2006
2006 Second Semiannual Stage 2 Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Location ID	Sample Date	TOC (feet msl)	Depth To Water (feet TOC)	Groundwater Elevation (feet msl)	Conductivity (ms/cm)	pH (SU)	Temperature (°C)
ESE-001	12/14/06	162.27	9.64	152.63	0.129	4.90	22.16
EW-01	12/13/06	180.45	NM	NA	0.134	5.95	27.76
EW-02	12/13/06	178.89	NM	NA	0.130	5.29	25.91
EW-03	12/13/06	175.82	NM	NA	0.106	5.30	27.69
EW-05	12/13/06	171.33	NM	NA	0.228	6.20	23.31
EW-06	12/13/06	173.02	NM	NA	0.098	6.01	23.71
EW-08	12/13/06	174.10	NM	NA	0.119	5.82	27.55
EW-09	12/13/06	176.17	NM	NA	0.141	5.81	26.25
EW-10	12/13/06	177.33	NM	NA	0.158	6.01	24.50
EW-11	12/13/06	178.30	NM	NA	0.159	5.86	23.00
EW-13	12/13/06	179.99	NM	NA	0.158	5.73	23.95
EW-14	12/13/06	181.84	NM	NA	0.172	5.79	24.89
EW-15	12/13/06	182.94	NM	NA	0.184	5.32	25.10
EW-16	12/13/06	184.24	NM	NA	0.248	5.99	37.30
EW-17	12/13/06	184.76	NM	NA	0.682	6.03	26.17
ITW-12	12/14/06	177.49	9.55	167.94	0.360	5.65	24.40
ITW-20	12/14/06	169.80	10.71	159.09	0.149	4.73	21.38
M-05B	12/14/06	182.18	16.30	165.88	0.185	6.20	23.66
M-33B	12/14/06	176.39	13.05	163.34	0.154	5.17	24.52

Notes:

NA - not available

TOC - top of casing

NM - not measured

feet msl - feet above mean sea level

feet TOC - feet below top of casing

ms/cm - millisiemens per centimeter

SU - standard units

°C = degree celsius

GROUNDWATER SAMPLE WELL NO.: EW-1
COLLECTION RECORD

[illegible]



GROUNDWATER SAMPLE WELL NO.:
COLLECTION RECORD

EW-2

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75° cloudy Sampling Date: 12/13/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: (ft) (a-d)
h. Well Volume: (gal)

Conversion Factors
(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Pump House Tap
~~Bladder Pump w/ Dedicated Teflon[®] lined Tubing RH~~
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed:
e. Begin Purge Time: 0925 End Purge Time: 0930

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		24.01	5.48	129.9				
---	---	--	-------	------	-------	--	--	--	--

PURGING VALUES

2	5		25.91	5.29	130.1				
---	---	--	-------	------	-------	--	--	--	--

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon[®] lined Tubing pump house tap

Sample I.D. (Name, Date, Time): EW-2, 12-13-06, 0925

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C

Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 0930

End Sample Time: 0935

COMMENTS: creosote odor



GROUNDWATER SAMPLE WELL NO.:
COLLECTION RECORD

EW-3

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75°, cloudy Sampling Date: 12/13/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: (ft) (a-d)
h. Well Volume: (gal)

2. WELL PURGE DATA

a. Purge Method: Pump House Tap
~~Bladder Pump w/ Dedicated Teflon® lined Tubing RH~~
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed:
e. Begin Purge Time: 0940 End Purge Time: 0945

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		27.01	5.74	105.4				
---	---	--	-------	------	-------	--	--	--	--

PURGING VALUES

2	5		27.69	5.30	105.5				
---	---	--	-------	------	-------	--	--	--	--

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: pump house tap
~~Bladder Pump w/ Dedicated Teflon® lined Tubing~~

Sample I.D. (Name, Date, Time): EW-3, 12-13-06, 0940

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C
Diss: As, Cr, Cu, Zn-6020

Sample Start Time: 0945

End Sample Time: 0950

COMMENTS: creosote odor



GROUNDWATER SAMPLE WELL NO.: EW-5
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75°, cloudy Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: (ft) (a-d)
h. Well Volume: (gal)

2. WELL PURGE DATA

a. Purge Method: Pump House Tap
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed:
e. Begin Purge Time: 955 End Purge Time: 1000

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1			23.40	6.15	231.1				
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PURGING VALUES

2			23.31	6.20	227.7				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon-lined Tubing pump house tap

Sample I.D. (Name, Date, Time): EW-5, 12-13-06, 1000

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1000

End Sample Time: 1005

COMMENTS: creosote odor

Form #15



GROUNDWATER SAMPLE WELL NO.: EW-8
COLLECTION RECORD

Project No.: 045006		Client: Beazer																
Project Name: Gainesville		Project Location: Gainesville, FL																
Weather Conditions: Cloudy, 75°		Sampling Date: 12-13-06																
1. WATER LEVEL DATA (measured from top of inner well casing)																		
a. Depth to LNAPL:	NA	(ft)	b. Depth to Water:		(ft)													
c. Depth to DNAPL:	NA	(ft)	d. Total Well Depth:		(ft)													
e. LNAPL Thickness: (a-b)	NA	(ft)	f. DNAPL Thickness: (c-d)	NA	(ft)													
g. Length of Water Column:		(ft)	(a-d)															
h. Well Volume:		(gal)																
2. WELL PURGE DATA				<table border="1"><thead><tr><th colspan="2">Conversion Factors (a x cf = h)</th></tr><tr><th>Well I.D.</th><th>Conv. Fact. (cf)</th></tr></thead><tbody><tr><td>1</td><td>0.041</td></tr><tr><td>2</td><td>0.163</td></tr><tr><td>4</td><td>0.653</td></tr><tr><td>6</td><td>1.470</td></tr></tbody></table>		Conversion Factors (a x cf = h)		Well I.D.	Conv. Fact. (cf)	1	0.041	2	0.163	4	0.653	6	1.470	
Conversion Factors (a x cf = h)																		
Well I.D.	Conv. Fact. (cf)																	
1	0.041																	
2	0.163																	
4	0.653																	
6	1.470																	
a. Purge Method:	Bladder Pump w/ Dedicated Teflon®-lined Tubing																	
b. Field Testing Equipment:	Horiba U-22																	
c. Required Total Purge Volume (1f x 2c) (gals.):	NA																	
d. Total Volume Removed:																		
e. Begin Purge Time:	1015	End Purge Time:		1020														
Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)									
PRE PURGE VALUES																		
1	0		27.15	5.78	127.1													
PURGING VALUES																		
2	5		27.55	5.82	118.5													
RH																		
3. SAMPLE COLLECTION DATA				Sampling Personnel: R. Hanczar / J. Leaver														
Sampling Method(s) & Equip:				Bladder Pump w/ Dedicated Teflon®-lined Tubing pump house tap														
Sample I.D. (Name, Date, Time):				EW-8, 12-23-06, 1015														
Sample Analytical Parameters/Method:				BTEX-8260B; SVOCs (select phenols and PAHs)-8270C Diss. As, Cr, Cu, Zn-6020-														
Sample Start Time:				1015														
End Sample Time:				1020														
COMMENTS: brown/orange color creosote odor in initial purge, cleared up eventually																		



GROUNDWATER SAMPLE WELL NO.: EW-9
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: Cloudy, 75° Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: _____ (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: _____ (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: _____ (ft) (a-d)
h. Well Volume: _____ (gal)

2. WELL PURGE DATA

a. Purge Method: Pump house tap
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed: _____
e. Begin Purge Time: 1020 End Purge Time: 1030

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		24.61	5.88	156.7				
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PURGING VALUES

2	5		26.82	5.75	141.1				
3	10		26.25	5.81	140.7				

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon®-lined Tubing pump house tap

Sample I.D. (Name, Date, Time): EW-9, 12-13-06, 1025

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1025

End Sample Time: 1030

COMMENTS: creosote odor, water fluctuating cloudy brown - clear



GROUNDWATER SAMPLE WELL NO.: EW-10
COLLECTION RECORD

Project No.: 045006 Client: Beazer

Project Name: Gainesville Project Location: Gainesville, FL

Weather Conditions: 75° cloudy, breeze Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: _____ (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: _____ (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: _____ (ft) (a-d)
h. Well Volume: _____ (gal)

Conversion Factors

(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Pump house tap
~~Bladder Pump w/ Dedicated Teflon[®] lined Tubing~~
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed: _____
e. Begin Purge Time: 1240 End Purge Time: 1250

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1			24.74	6.10	158.7				
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PURGING VALUES

2			24.50	6.01	158.3				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon[®] lined Tubing pump house tap

Sample I.D. (Name, Date, Time): EW-10, 12-13-06, 1245

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1245

End Sample Time: 1250

COMMENTS: pump was not initially working, changed capacitor



GROUNDWATER SAMPLE WELL NO.: EW-11
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75°, Cloudy Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: (ft) (a-d)
h. Well Volume: (gal)

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon®-lined Tubing
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed:
e. Begin Purge Time: 1030 End Purge Time: 1040

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		22.94	5.90	155.2				
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PURGING VALUES

2	5		23.00	5.86	158.8				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon®-lined Tubing

Sample I.D. (Name, Date, Time): EW-11, 12-13-06,

Sample Analytical Parameters/Method: ~~BTX-8260B~~, SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, ~~Cu~~, Zn 6020

Sample Start Time: 1035

End Sample Time: 1040

COMMENTS: creosote odor

GROUNDWATER SAMPLE WELL NO.: EW-13
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75° Cloudy Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL:	NA	(ft)	b. Depth to Water:		(ft)
c. Depth to DNAPL:	NA	(ft)	d. Total Well Depth:		(ft)
e. LNAPL Thickness: (a-b)	NA	(ft)	f. DNAPL Thickness: (c-d)	NA	(ft)
g. Length of Water Column:		(ft)	(a-d)		
h. Well Volume:		(gal)			

2. WELL PURGE DATA

Purge Method: Bladder Pump w/ Dedicated Teflon®-lined Tubing
Field Testing Equipment: Horiba U-22
Required Total Purge Volume (1f x 2c) (gals.): NA
Total Volume Removed: _____
Begin Purge Time: 1046 End Purge Time: 1050

		Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)		
1	0.041		
2	0.163		
4	0.653		
6	1.470		

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
1	0		23.85	5.78	154.6				
2	5		23.95	5.73	158.3				

3. SAMPLE COLLECTION DATA

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon®-lined Tubing
Sample I.D. (Name, Date, Time): EW-13, 12-13-06, 1040
Sample Analytical Parameters/Method: BTEX-8260B, SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020
Sampling Personnel: R. Hanczar / J. Leaver
Sample Start Time: 1045 End Sample Time: 1050
COMMENTS: creosote odor



GROUNDWATER SAMPLE WELL NO.: EW-14
COLLECTION RECORD

Project No.: 045006		Client: Beazer																
Project Name: Gainesville		Project Location: Gainesville, FL																
Weather Conditions: 75° cloudy		Sampling Date: 12-13-06																
1. WATER LEVEL DATA (measured from top of inner well casing)																		
a.	Depth to LNAPL: NA	(ft)	b. Depth to Water: (ft)															
c.	Depth to DNAPL: NA	(ft)	d. Total Well Depth: (ft)															
e.	LNAPL Thickness: (a-b) NA	(ft)	f. DNAPL Thickness: (c-d) NA (ft)															
g.	Length of Water Column: (ft)	(a-d)																
h.	Well Volume: (gal)																	
2. WELL PURGE DATA																		
a.	Purge Method: <u>Pump House tap</u>																	
b.	Field Testing Equipment: <u>Horiba U-22</u>																	
c.	Required Total Purge Volume (1f x 2c) (gals.): NA																	
d.	Total Volume Removed:																	
e.	Begin Purge Time: 1055	End Purge Time: 1105																
<table border="1"><thead><tr><th colspan="2">Conversion Factors</th></tr><tr><th colspan="2">(a x cf = h)</th></tr><tr><th>Well I.D.</th><th>Conv. Fact. (cf)</th></tr></thead><tbody><tr><td>1</td><td>0.041</td></tr><tr><td>2</td><td>0.163</td></tr><tr><td>4</td><td>0.653</td></tr><tr><td>6</td><td>1.470</td></tr></tbody></table>				Conversion Factors		(a x cf = h)		Well I.D.	Conv. Fact. (cf)	1	0.041	2	0.163	4	0.653	6	1.470	
Conversion Factors																		
(a x cf = h)																		
Well I.D.	Conv. Fact. (cf)																	
1	0.041																	
2	0.163																	
4	0.653																	
6	1.470																	
Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)									
PRE PURGE VALUES																		
1	0		24.60	5.69	175.3													
PURGING VALUES																		
2	5		24.89	5.79	172.2													
<div style="text-align: right;">RH</div>																		
3. SAMPLE COLLECTION DATA				Sampling Personnel: R. Hanczar / J. Leaver														
Sampling Method(s) & Equip: <u>Bladder Pump w/ Dedicated Teflon® lined Tubing</u>				<u>pump house tap</u>														
Sample I.D. (Name, Date, Time): <u>EW-14, 12-13-06, 1055</u>																		
Sample Analytical Parameters/Method: <u>BTEX-8200B, SVOCs (select phenols and PAHs)-8270C</u>																		
<u>Diss. As, Cr, Cu, Zn-6020</u>																		
Sample Start Time: 1100				End Sample Time: 1105														
COMMENTS: creosote odor																		



GROUNDWATER SAMPLE WELL NO.: EW-15
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75°, cloudy Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: (ft) (a-d)
h. Well Volume: (gal)

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon[®] lined Tubing
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed:
e. Begin Purge Time: 1105 End Purge Time: 1115

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		24.93	5.34	189.1				
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PURGING VALUES

2	5		25.10	5.32	183.7				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon[®] lined Tubing pump house tap

Sample I.D. (Name, Date, Time): EW-15, 12-13-06, 1110

Sample Analytical Parameters/Method: BTEX-8260B, SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1110

End Sample Time: 1115

COMMENTS: creosote odor



GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: EW-16

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: cloudy 75° Sampling Date: 12/13/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: _____ (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: _____ (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: _____ (ft) (a-d)
h. Well Volume: _____ (gal)

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon®-lined Tubing
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed: _____
e. Begin Purge Time: 1400 End Purge Time: 1415

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1			37.3	5.99	248.5				
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PURGING VALUES

2			37.3	5.99	248.1				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon®-lined Tubing

Sample I.D. (Name, Date, Time): EW-16, 12-13-06, MS, MSD

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1410 End Sample Time: 1415

COMMENTS: MS/MSD collected



GROUNDWATER SAMPLE WELL NO.:
COLLECTION RECORD

M-05B

Project No.:		045006		Client:		Beazer															
Project Name:		Gainesville		Project Location:		Gainesville, FL															
Weather Conditions:		cloudy 63°		Sampling Date:		12/14/06															
1. WATER LEVEL DATA (measured from top of inner well casing)																					
a. Depth to LNAPL:		NA		b. Depth to Water:		16.30 (ft)															
c. Depth to DNAPL:		NA		d. Total Well Depth:		28.20 (ft)															
e. LNAPL Thickness: (a-b)		NA		f. DNAPL Thickness: (c-d)		NA (ft)															
g. Length of Water Column:		11.90 (ft)		(a-d)																	
h. Well Volume:		2.0 (gal)																			
2. WELL PURGE DATA																					
a. Purge Method:		Bladder Pump w/ Dedicated Teflon® lined Tubing		BAILED																	
b. Field Testing Equipment:		Horiba U-22																			
c. Required Total Purge Volume (1f x 2c) (gals.):		NA 6.0																			
d. Total Volume Removed:		6.0 Gallons																			
e. Begin Purge Time:		0745		End Purge Time:		0805															
<table border="1"><thead><tr><th colspan="2">Conversion Factors</th></tr><tr><th colspan="2">(a x cf = h)</th></tr><tr><th>Well I.D.</th><th>Conv. Fact. (cf)</th></tr></thead><tbody><tr><td>1</td><td>0.041</td></tr><tr><td>3</td><td>0.163</td></tr><tr><td>4</td><td>0.653</td></tr><tr><td>6</td><td>1.470</td></tr></tbody></table>								Conversion Factors		(a x cf = h)		Well I.D.	Conv. Fact. (cf)	1	0.041	3	0.163	4	0.653	6	1.470
Conversion Factors																					
(a x cf = h)																					
Well I.D.	Conv. Fact. (cf)																				
1	0.041																				
3	0.163																				
4	0.653																				
6	1.470																				
Read No.	Lapse Time (min.)	Purge Rate (GAL)	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)												
PRE PURGE VALUES																					
1	0	0.25	22.85	7.42	.185	—	—	—	—												
PURGING VALUES																					
2	5	2.0	23.60	6.84	.188	—	—	—	—												
3	10	4.0	23.64	6.22	.183	—	—	—	—												
4	15	6.0	23.66	6.20	.185	—	—	—	—												
3. SAMPLE COLLECTION DATA																					
Sampling Method(s) & Equip:		Bladder Pump w/ Dedicated Teflon® lined Tubing		BAILED																	
Sample I.D. (Name, Date, Time):		M05B-121406		12/14/06		0810															
Sample Analytical Parameters/Method:		BTEX-8260B; SVOCs (select phenols and PAHs)-8270C		Diss. As, Cr, Cu, Zn 6020																	
Sample Start Time:		0810		End Sample Time:		0815															
COMMENTS:																					



GROUNDWATER SAMPLE WELL NO.:
COLLECTION RECORD

M-338

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: sunny 70° Sampling Date: 12/14/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: 13.05 (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: 27.03 (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: 13.98 (ft) (a-d)
h. Well Volume: 2.28 (gal)

Conversion Factors
(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon[®] lined Tubing *BAILER*
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA 6.8
d. Total Volume Removed: 7.0 GALLONS
e. Begin Purge Time: 0820 End Purge Time:

Read No.	Lapse Time (min.)	Purge Rate (GAL.)	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		24.35	5.19	165	—	—	—	—
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PURGING VALUES

2	5	2.2	24.53	5.13	164	—	—	—	—
3	8	5	24.58	5.15	153	—	—	—	—
4	12	7	24.52	5.17	154	—	—	—	—

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon[®] lined Tubing *BAILER*

Sample I.D. (Name, Date, Time): M338-12406, 12/14/06, 0835

Sample Analytical Parameters/Method: BTEX 8260B; SVOCs (select phenols and PAHs)-8270C

Diss. As, Cr, Cu, Zn-6020, TOTAL AS/CR

Sample Start Time: 0835

End Sample Time: 0840

COMMENTS:



GROUNDWATER SAMPLE WELL NO.: ITW-12
COLLECTION RECORD

Project No.: 045006		Client: Beazer															
Project Name: Gainesville		Project Location: Gainesville, FL															
Weather Conditions: SUNNY		Sampling Date: 12/14/06															
1. WATER LEVEL DATA (measured from top of inner well casing)																	
a.	Depth to LNAPL: NA (ft)	b.	Depth to Water: 9.55 (ft)														
c.	Depth to DNAPL: NA (ft)	d.	Total Well Depth: 19.52 (ft)														
e.	LNAPL Thickness: (a-b) NA (ft)	f.	DNAPL Thickness: (c-d) NA (ft)														
g.	Length of Water Column: 9.97 (ft)	(a-d)															
h.	Well Volume: 1.63 (gal)																
2. WELL PURGE DATA																	
a.	Purge Method: Bladder Pump w/ Dedicated Teflon [®] lined Tubing BAICER																
b.	Field Testing Equipment: Horiba U-22																
c.	Required Total Purge Volume (1f x 2c) (gals.): NA 4.9																
d.	Total Volume Removed: 5.0 Gallons																
e.	Begin Purge Time: 0902 End Purge Time: 0915																
<table border="1"><thead><tr><th colspan="2">Conversion Factors</th></tr><tr><th colspan="2">(a x cf = h)</th></tr><tr><th>Well I.D.</th><th>Conv. Fact. (cf)</th></tr></thead><tbody><tr><td>1</td><td>0.041</td></tr><tr><td>2</td><td>0.163</td></tr><tr><td>4</td><td>0.653</td></tr><tr><td>6</td><td>1.470</td></tr></tbody></table>				Conversion Factors		(a x cf = h)		Well I.D.	Conv. Fact. (cf)	1	0.041	2	0.163	4	0.653	6	1.470
Conversion Factors																	
(a x cf = h)																	
Well I.D.	Conv. Fact. (cf)																
1	0.041																
2	0.163																
4	0.653																
6	1.470																
Read No.	Lapse Time (min.)	Purge Rate GAL	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)								
PRE PURGE VALUES																	
1	0	0.25	24.26	5.59	-355	—	—	—	—								
PURGING VALUES																	
2	3	2.0	24.42	5.62	-362	—	—	—	—								
3	8	3.5	24.44	5.64	-363	—	—	—	—								
4	12	5.0	24.40	5.65	-360	—	—	—	—								
3. SAMPLE COLLECTION DATA																	
Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon [®] lined Tubing BAICER				Sampling Personnel: R. Hanczar / J. Leaver													
Sample I.D. (Name, Date, Time): ITW12-121406, 12/14/06, 0916																	
Sample Analytical Parameters/Method: BTEX-8260B, SVOCs (select phenols and PAHs)-8270C																	
Diss. As, Cr, Cu, Zn-6020, TOTAL AS/CR																	
Sample Start Time: 0916				End Sample Time: 0928													
COMMENTS: TOOK DUPOI-121406																	



GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: ITW-20

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: cloudy 74° Sampling Date: 12/14/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: 10.71 (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: 29.76 (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: 19.05 (ft) (a-d)
h. Well Volume: 3.1 (gal)

Conversion Factors
(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
②	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: ~~Bladder Pump w/ Dedicated Teflon® lined Tubing~~ BAKER
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): ~~NA~~ 9.3
d. Total Volume Removed: 9.3 GALLONS
e. Begin Purge Time: 0940 End Purge Time: 0959

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
		<u>6AL</u>							

PRE PURGE VALUES

1	0		21.16	5.09	153	—	—	—	—
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PURGING VALUES

2	4	3.1	21.31	4.79	153	—	—	—	—
3	8	6.2	21.35	4.78	151	—	—	—	—
4	12	9.3	21.38	4.73	149	—	—	—	—

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. LeaverSampling Method(s) & Equip: ~~Bladder Pump w/ Dedicated Teflon® lined Tubing~~ BAKERSample I.D. (Name, Date, Time): ITW20-12/14/06, 12/14/06, 1000Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270CDiss. As, Cr, Cu, Zn-6020, TOTAL AS/CRSample Start Time: 1000End Sample Time: 1006

COMMENTS:



GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: ESE-001

Project No.: 045006 Client: Beazer

Project Name: Gainesville Project Location: Gainesville, FL

Weather Conditions: Cloudy 76° Sampling Date: 12/14/06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: NA (ft) b. Depth to Water: 9.64 (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: 22.30 (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: 12.66 (ft) (a-d)
h. Well Volume: 2.1 (gal)

Conversion Factors
(a x cf = h)

Well I.D.	Conv. Fact. (cf)
1	0.041
<u>2</u>	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon®-lined Tubing
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA 6.3
d. Total Volume Removed: 6.4 GALLONS
e. Begin Purge Time: 1010 End Purge Time: 1022

Read No.	Lapse Time (min.)	Purge Rate (GAL)	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0	0.25	22.06	4.93	.134	—	—	—	—
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PURGING VALUES

2	3	2.0	22.11	4.94	.133	—	—	—	—
3	8	4.2	22.15	4.92	.130	—	—	—	—
4	12	6.4	22.16	4.90	.129	—	—	—	—

3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon®-lined Tubing RAILER

Sample I.D. (Name, Date, Time): ESE001-121406, 12/14/06, 1024

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs)-8270C

Diss. As, Cr, Cu, Zn-6020, TOTAL AS/CR

Sample Start Time: 1024

End Sample Time: 1030

COMMENTS:



GROUNDWATER SAMPLE WELL NO.: EW-17
COLLECTION RECORD

Project No.: 045006 Client: Beazer
Project Name: Gainesville Project Location: Gainesville, FL
Weather Conditions: 75° cloudy Sampling Date: 12-13-06

1. WATER LEVEL DATA (measured from top of inner well casing)

a. Depth to LNAPL: 2 NA (ft) b. Depth to Water: _____ (ft)
c. Depth to DNAPL: NA (ft) d. Total Well Depth: _____ (ft)
e. LNAPL Thickness: (a-b) NA (ft) f. DNAPL Thickness: (c-d) NA (ft)
g. Length of Water Column: _____ (ft) (a-d)
h. Well Volume: _____ (gal)

Conversion Factors (a x cf = h)	
Well I.D.	Conv. Fact. (cf)
1	0.041
2	0.163
4	0.653
6	1.470

2. WELL PURGE DATA

a. Purge Method: Bladder Pump w/ Dedicated Teflon[®] lined Tubing
b. Field Testing Equipment: Horiba U-22
c. Required Total Purge Volume (1f x 2c) (gals.): NA
d. Total Volume Removed: _____
e. Begin Purge Time: 1115 End Purge Time: 1125

Read No.	Lapse Time (min.)	Purge Rate	Temp (deg. C) (±10%)	pH (s.u.) (±0.1)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Water Level (ft)
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PRE PURGE VALUES

1	0		25.68	6.02	667.5				
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PURGING VALUES

2	5		26.17	6.03	682.0				
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3. SAMPLE COLLECTION DATA

Sampling Personnel: R. Hanczar / J. Leaver

Sampling Method(s) & Equip: Bladder Pump w/ Dedicated Teflon[®] lined Tubing pump horse tap

Sample I.D. (Name, Date, Time): EW-17, 12-13-06,

Sample Analytical Parameters/Method: BTEX-8260B; SVOCs (select phenols and PAHs) 8270C
Diss. As, Cr, Cu, Zn-6020

Sample Start Time: 1120

End Sample Time: 1125

COMMENTS: water fizzing, extremely low D.O., creosote odor

Appendix B

Analytical Laboratory Data

Field and Technical Services, LLC

DATE: January 9, 2007

FROM: Jon Livingston

SUBJECT: INORGANIC AND ORGANIC DATA EVALUATION – SVOC, Metals (Total/ Dissolved)
GAINESVILLE – Floridan
SAMPLE DELIVERY GROUP (SDG) – J0605982

SAMPLES:

DUP01	M05B	M33B
ITW20	ITW12	ESE01
EB01		

Overview

The sample set for SDG J0605982 consists of 6 groundwater samples and one equipment blank. One duplicate pair was collected at well ITW12/ DUP01.

All samples were analyzed for select semivolatile organic compounds (SVOCs), and select metals (total and dissolved). The samples were collected by Field and Technical Services on 12/14/06 and analyzed by Columbia Analytical Services, Inc.

The data contained in this SDG were evaluated with regard to the following parameters:

- * • Data Completeness
- * • Holding Times
- Laboratory Method Blank Results
- * • Surrogate Recoveries
- * • Matrix Spike/Matrix Spike Duplicate
- * • Laboratory Control Sample
- Field Duplicate Results
- Field Blank Results

The symbol (*) indicates that all quality control criteria were met for this parameter.

Summary of Data Evaluation

- Total and dissolved chromium were detected in the equipment blank (EB01) from 12/14/06.
- Total chromium was detected in the laboratory method blank (MB7-1219).

SVOCs – SW846 8270C

No qualifications were made to this fraction.

Metals – SW846 6020

The following analytes were detected in the aqueous equipment blank (EB01) from 12/14/06 at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Dissolved Chromium	0.00092 mg/L	0.0046 mg/L
Total Chromium	0.00074 mg/L	0.0037 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for equipment/field blank contamination. Associated samples with concentrations below the blank action level were qualified with a "B" for field blank contamination.

The following analytes were detected in the aqueous laboratory method blank (MB7-1219) at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Total Chromium	0.00056 mg/L	0.0028 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for laboratory contamination. Associated samples with concentrations below the blank action level were qualified with a "U" for laboratory blank contamination.

Field Duplicate Comparison

FIELD DUPLICATE PRECISION

ANALYTE (mg/L)	ITW12	DUP01	RPD
Naphthalene	0.0033 J	0.0071 J	53
2-Methylnaphthalene	0.0013 J	0.0016 J	21
Acenaphthene	0.0041 J	0.0040 J	2
Dibenzofuran	0.0023 J	0.0021 J	9
Fluorene	0.0024 J	0.0024 J	0
Arsenic, Dissolved	0.00053	0.00058	9
Arsenic, Total	0.00035	0.00041	16
Chromium, Dissolved	0.0012	0.0014	15
Chromium, Total	0.0014	0.0013	7

Naphthalene results in the duplicate pair ITW12/ DUP01 will be qualified as estimated, "J", because of field duplicate RPD greater than 30%.


 Jon Livingston
 Field and Technical Services
 Data Analyst

Laboratory Form I's

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: DUP01-121406
 Lab Code: J0605982-001
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.5	1.9	1	12/18/06	12/28/06	JWG0604056	
2-Methylphenol	ND	U	5.5	0.49	1	12/18/06	12/28/06	JWG0604056	
4-Methylphenol†	ND	U	5.5	0.81	1	12/18/06	12/28/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.5	0.59	1	12/18/06	12/28/06	JWG0604056	
Naphthalene	7.1	J	5.5	0.46	1	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	1.6	J	5.5	0.47	1	12/18/06	12/28/06	JWG0604056	
Acenaphthylene	ND	U	5.5	0.38	1	12/18/06	12/28/06	JWG0604056	
Acenaphthene	4.0	J	5.5	0.36	1	12/18/06	12/28/06	JWG0604056	
Dibenzofuran	2.1	J	5.5	0.49	1	12/18/06	12/28/06	JWG0604056	
Fluorene	2.4	J	5.5	0.40	1	12/18/06	12/28/06	JWG0604056	
Pentachlorophenol	ND	U	22	0.43	1	12/18/06	12/28/06	JWG0604056	
Phenanthrene	ND	U	5.5	0.29	1	12/18/06	12/28/06	JWG0604056	
Anthracene	ND	U	5.5	0.29	1	12/18/06	12/28/06	JWG0604056	
Carbazole	ND	U	5.5	0.61	1	12/18/06	12/28/06	JWG0604056	
Fluoranthene	ND	U	5.5	0.29	1	12/18/06	12/28/06	JWG0604056	
Pyrene	ND	U	5.5	0.48	1	12/18/06	12/28/06	JWG0604056	
Benz(a)anthracene	ND	U	5.5	0.62	1	12/18/06	12/28/06	JWG0604056	
Chrysene	ND	U	5.5	0.57	1	12/18/06	12/28/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.5	0.64	1	12/18/06	12/28/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.5	0.63	1	12/18/06	12/28/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.5	0.61	1	12/18/06	12/28/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.59	1	12/18/06	12/28/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.5	0.62	1	12/18/06	12/28/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.5	0.54	1	12/18/06	12/28/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: DUP01-121406
Lab Code: J0605982-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	30	10-77	12/28/06	Acceptable
Phenol-d6	19	10-51	12/28/06	Acceptable
Nitrobenzene-d5	61	42-106	12/28/06	Acceptable
2-Fluorobiphenyl	78	43-99	12/28/06	Acceptable
2,4,6-Tribromophenol	95	30-141	12/28/06	Acceptable
Terphenyl-d14	69	23-165	12/28/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M05B-121406
 Lab Code: J0605982-002
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.3	1.8	1	12/18/06	12/27/06	JWG0604056	
2-Methylphenol	ND	U	5.3	0.47	1	12/18/06	12/27/06	JWG0604056	
4-Methylphenol†	ND	U	5.3	0.77	1	12/18/06	12/27/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.3	0.56	1	12/18/06	12/27/06	JWG0604056	
Naphthalene	0.87	†-J	5.3	0.44	1	12/18/06	12/27/06	JWG0604056	
2-Methylnaphthalene	ND	U	5.3	0.45	1	12/18/06	12/27/06	JWG0604056	
Acenaphthylene	ND	U	5.3	0.36	1	12/18/06	12/27/06	JWG0604056	
Acenaphthene	ND	U	5.3	0.34	1	12/18/06	12/27/06	JWG0604056	
Dibenzofuran	ND	U	5.3	0.47	1	12/18/06	12/27/06	JWG0604056	
Fluorene	ND	U	5.3	0.38	1	12/18/06	12/27/06	JWG0604056	
Pentachlorophenol	ND	U	22	0.42	1	12/18/06	12/27/06	JWG0604056	
Phenanthrene	ND	U	5.3	0.28	1	12/18/06	12/27/06	JWG0604056	
Anthracene	ND	U	5.3	0.28	1	12/18/06	12/27/06	JWG0604056	
Carbazole	ND	U	5.3	0.58	1	12/18/06	12/27/06	JWG0604056	
Fluoranthene	ND	U	5.3	0.28	1	12/18/06	12/27/06	JWG0604056	
Pyrene	ND	U	5.3	0.46	1	12/18/06	12/27/06	JWG0604056	
Benz(a)anthracene	ND	U	5.3	0.59	1	12/18/06	12/27/06	JWG0604056	
Chrysene	ND	U	5.3	0.54	1	12/18/06	12/27/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.3	0.62	1	12/18/06	12/27/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.3	0.60	1	12/18/06	12/27/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.3	0.58	1	12/18/06	12/27/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.3	0.56	1	12/18/06	12/27/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.3	0.59	1	12/18/06	12/27/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.3	0.52	1	12/18/06	12/27/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M05B-121406
Lab Code: J0605982-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	25	10-77	12/27/06	Acceptable
Phenol-d6	16	10-51	12/27/06	Acceptable
Nitrobenzene-d5	50	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	64	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	75	30-141	12/27/06	Acceptable
Terphenyl-d14	62	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M33B-121406
 Lab Code: J0605982-003
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.6	1.9	1	12/18/06	12/27/06	JWG0604056	
2-Methylphenol	ND	U	5.6	0.49	1	12/18/06	12/27/06	JWG0604056	
4-Methylphenol†	ND	U	5.6	0.82	1	12/18/06	12/27/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.6	0.59	1	12/18/06	12/27/06	JWG0604056	
Naphthalene	370		28	2.3	5	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	31		5.6	0.47	1	12/18/06	12/27/06	JWG0604056	
Acenaphthylene	0.73	†-J	5.6	0.38	1	12/18/06	12/27/06	JWG0604056	
Acenaphthene	47		5.6	0.36	1	12/18/06	12/27/06	JWG0604056	
Dibenzofuran	58		5.6	0.49	1	12/18/06	12/27/06	JWG0604056	
Fluorene	52		5.6	0.40	1	12/18/06	12/27/06	JWG0604056	
Pentachlorophenol	ND	U	23	0.44	1	12/18/06	12/27/06	JWG0604056	
Phenanthrene	20		5.6	0.29	1	12/18/06	12/27/06	JWG0604056	
Anthracene	2.2	†-J	5.6	0.29	1	12/18/06	12/27/06	JWG0604056	
Carbazole	87		5.6	0.62	1	12/18/06	12/27/06	JWG0604056	
Fluoranthene	ND	U	5.6	0.29	1	12/18/06	12/27/06	JWG0604056	
Pyrene	ND	U	5.6	0.48	1	12/18/06	12/27/06	JWG0604056	
Benz(a)anthracene	ND	U	5.6	0.63	1	12/18/06	12/27/06	JWG0604056	
Chrysene	ND	U	5.6	0.57	1	12/18/06	12/27/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.6	0.65	1	12/18/06	12/27/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.6	0.64	1	12/18/06	12/27/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.6	0.62	1	12/18/06	12/27/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.6	0.59	1	12/18/06	12/27/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.6	0.63	1	12/18/06	12/27/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.6	0.55	1	12/18/06	12/27/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M33B-121406
Lab Code: J0605982-003

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	34	10-77	12/27/06	Acceptable
Phenol-d6	23	10-51	12/27/06	Acceptable
Nitrobenzene-d5	71	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	78	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	92	30-141	12/27/06	Acceptable
Terphenyl-d14	72	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ITW12-121406
 Lab Code: J0605982-004
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.6	1.9	1	12/18/06	12/28/06	JWG0604056	
2-Methylphenol	ND	U	5.6	0.49	1	12/18/06	12/28/06	JWG0604056	
4-Methylphenol†	ND	U	5.6	0.82	1	12/18/06	12/28/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.6	0.59	1	12/18/06	12/28/06	JWG0604056	
Naphthalene	3.3	† J	5.6	0.46	1	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	1.3	† J	5.6	0.47	1	12/18/06	12/28/06	JWG0604056	
Acenaphthylene	ND	U	5.6	0.38	1	12/18/06	12/28/06	JWG0604056	
Acenaphthene	4.1	† J	5.6	0.36	1	12/18/06	12/28/06	JWG0604056	
Dibenzofuran	2.3	† J	5.6	0.49	1	12/18/06	12/28/06	JWG0604056	
Fluorene	2.4	† J	5.6	0.40	1	12/18/06	12/28/06	JWG0604056	
Pentachlorophenol	ND	U	23	0.44	1	12/18/06	12/28/06	JWG0604056	
Phenanthrene	ND	U	5.6	0.29	1	12/18/06	12/28/06	JWG0604056	
Anthracene	ND	U	5.6	0.29	1	12/18/06	12/28/06	JWG0604056	
Carbazole	ND	U	5.6	0.62	1	12/18/06	12/28/06	JWG0604056	
Fluoranthene	ND	U	5.6	0.29	1	12/18/06	12/28/06	JWG0604056	
Pyrene	ND	U	5.6	0.48	1	12/18/06	12/28/06	JWG0604056	
Benz(a)anthracene	ND	U	5.6	0.63	1	12/18/06	12/28/06	JWG0604056	
Chrysene	ND	U	5.6	0.57	1	12/18/06	12/28/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.6	0.65	1	12/18/06	12/28/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.6	0.64	1	12/18/06	12/28/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.6	0.62	1	12/18/06	12/28/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.6	0.59	1	12/18/06	12/28/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.6	0.63	1	12/18/06	12/28/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.6	0.55	1	12/18/06	12/28/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ITW12-121406
Lab Code: J0605982-004

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	27	10-77	12/28/06	Acceptable
Phenol-d6	18	10-51	12/28/06	Acceptable
Nitrobenzene-d5	59	42-106	12/28/06	Acceptable
2-Fluorobiphenyl	78	43-99	12/28/06	Acceptable
2,4,6-Tribromophenol	92	30-141	12/28/06	Acceptable
Terphenyl-d14	67	23-165	12/28/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ITW20-121406
 Lab Code: J0605982-005
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.7	2.0	1	12/18/06	12/28/06	JWG0604056	
2-Methylphenol	ND	U	5.7	0.50	1	12/18/06	12/28/06	JWG0604056	
4-Methylphenol†	ND	U	5.7	0.83	1	12/18/06	12/28/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.7	0.61	1	12/18/06	12/28/06	JWG0604056	
Naphthalene	2.8	† U	5.7	0.47	1	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	0.52	† U	5.7	0.48	1	12/18/06	12/28/06	JWG0604056	
Acenaphthylene	ND	U	5.7	0.39	1	12/18/06	12/28/06	JWG0604056	
Acenaphthene	0.61	† U	5.7	0.37	1	12/18/06	12/28/06	JWG0604056	
Dibenzofuran	ND	U	5.7	0.50	1	12/18/06	12/28/06	JWG0604056	
Fluorene	ND	U	5.7	0.41	1	12/18/06	12/28/06	JWG0604056	
Pentachlorophenol	ND	U	23	0.45	1	12/18/06	12/28/06	JWG0604056	
Phenanthrene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Anthracene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Carbazole	ND	U	5.7	0.63	1	12/18/06	12/28/06	JWG0604056	
Fluoranthene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Pyrene	ND	U	5.7	0.49	1	12/18/06	12/28/06	JWG0604056	
Benz(a)anthracene	ND	U	5.7	0.64	1	12/18/06	12/28/06	JWG0604056	
Chrysene	ND	U	5.7	0.58	1	12/18/06	12/28/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.7	0.66	1	12/18/06	12/28/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.7	0.65	1	12/18/06	12/28/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.7	0.63	1	12/18/06	12/28/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.7	0.61	1	12/18/06	12/28/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.7	0.64	1	12/18/06	12/28/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.7	0.56	1	12/18/06	12/28/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ITW20-121406
Lab Code: J0605982-005

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	30	10-77	12/28/06	Acceptable
Phenol-d6	19	10-51	12/28/06	Acceptable
Nitrobenzene-d5	63	42-106	12/28/06	Acceptable
2-Fluorobiphenyl	75	43-99	12/28/06	Acceptable
2,4,6-Tribromophenol	91	30-141	12/28/06	Acceptable
Terphenyl-d14	64	23-165	12/28/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: 12/14/2006
 Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ESE01-121406
 Lab Code: J0605982-006
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.7	2.0	1	12/18/06	12/28/06	JWG0604056	
2-Methylphenol	ND	U	5.7	0.50	1	12/18/06	12/28/06	JWG0604056	
4-Methylphenol†	ND	U	5.7	0.83	1	12/18/06	12/28/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.7	0.61	1	12/18/06	12/28/06	JWG0604056	
Naphthalene	0.49	† U	5.7	0.47	1	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	ND	U	5.7	0.48	1	12/18/06	12/28/06	JWG0604056	
Acenaphthylene	ND	U	5.7	0.39	1	12/18/06	12/28/06	JWG0604056	
Acenaphthene	0.62	† U	5.7	0.37	1	12/18/06	12/28/06	JWG0604056	
Dibenzofuran	ND	U	5.7	0.50	1	12/18/06	12/28/06	JWG0604056	
Fluorene	ND	U	5.7	0.41	1	12/18/06	12/28/06	JWG0604056	
Pentachlorophenol	ND	U	23	0.45	1	12/18/06	12/28/06	JWG0604056	
Phenanthrene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Anthracene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Carbazole	ND	U	5.7	0.63	1	12/18/06	12/28/06	JWG0604056	
Fluoranthene	ND	U	5.7	0.30	1	12/18/06	12/28/06	JWG0604056	
Pyrene	ND	U	5.7	0.49	1	12/18/06	12/28/06	JWG0604056	
Benz(a)anthracene	ND	U	5.7	0.64	1	12/18/06	12/28/06	JWG0604056	
Chrysene	ND	U	5.7	0.58	1	12/18/06	12/28/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.7	0.66	1	12/18/06	12/28/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.7	0.65	1	12/18/06	12/28/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.7	0.63	1	12/18/06	12/28/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.7	0.61	1	12/18/06	12/28/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.7	0.64	1	12/18/06	12/28/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.7	0.56	1	12/18/06	12/28/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: ESE01-121406
Lab Code: J0605982-006

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	29	10-77	12/28/06	Acceptable
Phenol-d6	19	10-51	12/28/06	Acceptable
Nitrobenzene-d5	61	42-106	12/28/06	Acceptable
2-Fluorobiphenyl	74	43-99	12/28/06	Acceptable
2,4,6-Tribromophenol	92	30-141	12/28/06	Acceptable
Terphenyl-d14	71	23-165	12/28/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

Analytical Results

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.4	1.9	1	12/18/06	12/28/06	JWG0604056	
2-Methylphenol	ND	U	5.4	0.48	1	12/18/06	12/28/06	JWG0604056	
4-Methylphenol†	ND	U	5.4	0.79	1	12/18/06	12/28/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.4	0.57	1	12/18/06	12/28/06	JWG0604056	
Naphthalene	ND	U	5.4	0.45	1	12/18/06	12/28/06	JWG0604056	
2-Methylnaphthalene	ND	U	5.4	0.46	1	12/18/06	12/28/06	JWG0604056	
Acenaphthylene	ND	U	5.4	0.37	1	12/18/06	12/28/06	JWG0604056	
Acenaphthene	ND	U	5.4	0.35	1	12/18/06	12/28/06	JWG0604056	
Dibenzofuran	ND	U	5.4	0.48	1	12/18/06	12/28/06	JWG0604056	
Fluorene	ND	U	5.4	0.39	1	12/18/06	12/28/06	JWG0604056	
Pentachlorophenol	ND	U	22	0.42	1	12/18/06	12/28/06	JWG0604056	
Phenanthrene	ND	U	5.4	0.28	1	12/18/06	12/28/06	JWG0604056	
Anthracene	ND	U	5.4	0.28	1	12/18/06	12/28/06	JWG0604056	
Carbazole	ND	U	5.4	0.60	1	12/18/06	12/28/06	JWG0604056	
Fluoranthene	ND	U	5.4	0.28	1	12/18/06	12/28/06	JWG0604056	
Pyrene	ND	U	5.4	0.47	1	12/18/06	12/28/06	JWG0604056	
Benz(a)anthracene	ND	U	5.4	0.61	1	12/18/06	12/28/06	JWG0604056	
Chrysene	ND	U	5.4	0.55	1	12/18/06	12/28/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.4	0.63	1	12/18/06	12/28/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.4	0.62	1	12/18/06	12/28/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.4	0.60	1	12/18/06	12/28/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.4	0.57	1	12/18/06	12/28/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.4	0.61	1	12/18/06	12/28/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.4	0.53	1	12/18/06	12/28/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EB01-121406
Lab Code: J0605982-007

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	27	10-77	12/28/06	Acceptable
Phenol-d6	17	10-51	12/28/06	Acceptable
Nitrobenzene-d5	58	42-106	12/28/06	Acceptable
2-Fluorobiphenyl	73	43-99	12/28/06	Acceptable
2,4,6-Tribromophenol	82	30-141	12/28/06	Acceptable
Terphenyl-d14	78	23-165	12/28/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: DUP01-121406
Lab Code: J0605982-001

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	0.00058	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.0014	<i>XB</i>

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: M33B-121406
Lab Code: J0605982-003

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	U	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.0013	is

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: ITW12-121406
Lab Code: J0605982-004

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	0.00053	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.0012	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: ITW20-121406
Lab Code: J0605982-005

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	0.00062	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.0034	B

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: ESE01-121406
Lab Code: J0605982-006

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	U	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.0019	<i>XB</i>

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Dissolved Metals

Sample Name: EB01-121406
Lab Code: J0605982-007

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.00028	1.0	12/15/2006	12/22/2006	U	
Chromium	EPA 3005A	6020	0.0020	0.00012	1.0	12/15/2006	01/02/2007	0.00092	i

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: DUP01-121406
Lab Code: J0605982-001

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	0.00041	<i>X J</i>
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.0013	<i>X B</i>

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: M33B-121406
Lab Code: J0605982-003

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	0.00042	<i>✓ J</i>
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.0012	<i>✓ B</i>

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: ITW12-121406
Lab Code: J0605982-004

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	0.00035	<i>X J</i>
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.0014	<i>X B</i>

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: ITW20-121406
Lab Code: J0605982-005

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	0.00083	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.0033	8

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: ESE01-121406
Lab Code: J0605982-006

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.0019	XB

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006

Total Metals

Sample Name: EB01-121406
Lab Code: J0605982-007

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.00074	i

Supporting Documentation

January 02, 2007

Service Request No: J0605982

Angela Gatchie
Field and Technical Services, LLC
200 Third Avenue
Carnegie, PA 15106

RE: Gainesville/ Site Wide/045006-091

Dear Angela:

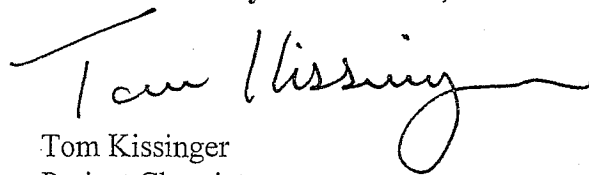
Enclosed are the results of the sample(s) submitted to our laboratory on December 14, 2006. For your reference, these analyses have been assigned our service request number J0605982.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 289. You may also contact me via email at TKissinger@jax.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Tom Kissinger
Project Chemist

Page 1 of 45

Laboratory Manager: Greg Jordan
Quality Assurance Officer: Kathy Brungard

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/07. Other state accreditations include: Arkansas, #88-0600 valid through 1/12/06; Georgia, #904 valid through 6/30/07; Louisiana, #02086 valid through 6/30/07; Texas, #T104704197-06-TX valid through 5/31/07; North Carolina, #527 valid through 12/31/06; and South Carolina, #96021001 valid through 6/30/07.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Field and Technical Services, LLC
Project: Gainesville/ Site Wide
Sample Matrix: water

Service Request No.: J0605982
Date Received: 12/14/06

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

7 water samples were received for analysis at Columbia Analytical Services on 12/14/06. The following discrepancies were noted upon initial sample inspection. The exceptions are also noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $4\pm2^{\circ}\text{C}$ upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Semivolatile Organics by GC-MS

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

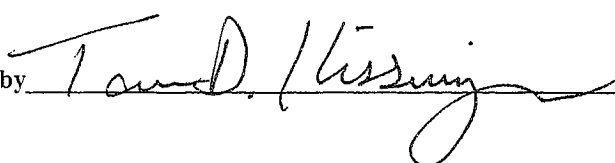
No problems were observed with this delivery group.

Metals by ICP-MS

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by

 Date 1/2/07

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Florida DEP Data Qualifiers

- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- H Value based on field kit determination; results may not be accurate.
- i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
 2. No known quality control criteria exists for the component.
 3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
- K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
- L Off scale high. The analyte is above the upper limit of the linear calibration range.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
- N Presumptive evidence of the analyte. Confirmation was not performed.
- Q Sample held beyond the accepted holding time.
- T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample.
- Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Client: Field and Technical Services, LLC
Project: Gainesville/ Site Wide/045006-091

Service Request: J0605982

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0605982-001	DUP01-121406	12/14/06	00:00
J0605982-002	M05B-121406	12/14/06	08:10
J0605982-003	M33B-121406	12/14/06	08:35
J0605982-004	ITW12-121406	12/14/06	09:16
J0605982-005	ITW20-121406	12/14/06	10:00
J0605982-006	ESE01-121406	12/14/06	10:24
J0605982-007	EB01-121406	12/14/06	09:30

✓

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville/ Site Wide/045006-091
 Sample Matrix: Water

Service Request: J0605982
 Date Collected: NA
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
 Lab Code: JWG0604056-4
 Extraction Method: EPA 3510C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.0	1.7	1	12/18/06	12/26/06	JWG0604056	
2-Methylphenol	ND	U	5.0	0.44	1	12/18/06	12/26/06	JWG0604056	
4-Methylphenol†	ND	U	5.0	0.73	1	12/18/06	12/26/06	JWG0604056	
2,4-Dimethylphenol	ND	U	5.0	0.53	1	12/18/06	12/26/06	JWG0604056	
Naphthalene	ND	U	5.0	0.41	1	12/18/06	12/26/06	JWG0604056	
2-Methylnaphthalene	ND	U	5.0	0.42	1	12/18/06	12/26/06	JWG0604056	
Acenaphthylene	ND	U	5.0	0.34	1	12/18/06	12/26/06	JWG0604056	
Acenaphthene	ND	U	5.0	0.32	1	12/18/06	12/26/06	JWG0604056	
Dibenzofuran	ND	U	5.0	0.44	1	12/18/06	12/26/06	JWG0604056	
Fluorene	ND	U	5.0	0.36	1	12/18/06	12/26/06	JWG0604056	
Pentachlorophenol	ND	U	20	0.39	1	12/18/06	12/26/06	JWG0604056	
Phenanthrene	ND	U	5.0	0.26	1	12/18/06	12/26/06	JWG0604056	
Anthracene	ND	U	5.0	0.26	1	12/18/06	12/26/06	JWG0604056	
Carbazole	ND	U	5.0	0.55	1	12/18/06	12/26/06	JWG0604056	
Fluoranthene	ND	U	5.0	0.26	1	12/18/06	12/26/06	JWG0604056	
Pyrene	ND	U	5.0	0.43	1	12/18/06	12/26/06	JWG0604056	
Benz(a)anthracene	ND	U	5.0	0.56	1	12/18/06	12/26/06	JWG0604056	
Chrysene	ND	U	5.0	0.51	1	12/18/06	12/26/06	JWG0604056	
Benzo(b)fluoranthene	ND	U	5.0	0.58	1	12/18/06	12/26/06	JWG0604056	
Benzo(k)fluoranthene	ND	U	5.0	0.57	1	12/18/06	12/26/06	JWG0604056	
Benzo(a)pyrene	ND	U	5.0	0.55	1	12/18/06	12/26/06	JWG0604056	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.53	1	12/18/06	12/26/06	JWG0604056	
Dibenz(a,h)anthracene	ND	U	5.0	0.56	1	12/18/06	12/26/06	JWG0604056	
Benzo(g,h,i)perylene	ND	U	5.0	0.49	1	12/18/06	12/26/06	JWG0604056	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0604056-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	28	10-77	12/26/06	Acceptable
Phenol-d6	16	10-51	12/26/06	Acceptable
Nitrobenzene-d5	55	42-106	12/26/06	Acceptable
2-Fluorobiphenyl	65	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	67	30-141	12/26/06	Acceptable
Terphenyl-d14	70	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
DUP01-121406	J0605982-001	30	19	61	78	95	69
M05B-121406	J0605982-002	25	16	50	64	75	62
M33B-121406	J0605982-003	34	23	71	78	92	72
ITW12-121406	J0605982-004	27	18	59	78	92	67
ITW20-121406	J0605982-005	30	19	63	75	91	64
ESE01-121406	J0605982-006	29	19	61	74	92	71
EB01-121406	J0605982-007	27	17	58	73	82	78
Method Blank	JWG0604056-4	28	16	55	65	67	70
Lab Control Sample	JWG0604056-3	38	22	70	76	77	69

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	10-77	Sur5 = 2,4,6-Tribromophenol	30-141
Sur2 = Phenol-d6	10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5	42-106		
Sur4 = 2-Fluorobiphenyl	43-99		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville/ Site Wide/045006-091
Sample Matrix: Water

Service Request: J0605982
Date Extracted: 12/18/2006
Date Analyzed: 12/26/2006

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0604056

Analyte Name	Lab Control Sample JWG0604056-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Phenol	16.0	50.0	32	12-54
2-Methylphenol	27.9	50.0	56	21-100
4-Methylphenol	48.5	75.0	65	15-93
2,4-Dimethylphenol	30.8	50.0	62	38-86
Naphthalene	36.1	50.0	72	44-97
2-Methylnaphthalene	36.6	50.0	73	46-97
Acenaphthylene	40.2	50.0	80	45-99
Acenaphthene	39.1	50.0	78	42-106
Dibenzofuran	39.4	50.0	79	49-103
Fluorene	38.5	50.0	77	54-97
Pentachlorophenol	32.5	50.0	65	44-120
Phenanthrene	40.1	50.0	80	52-99
Anthracene	43.1	50.0	86	52-104
Carbazole	41.9	50.0	84	48-118
Fluoranthene	41.0	50.0	82	52-110
Pyrene	31.6	50.0	63	53-100
Benz(a)anthracene	37.0	50.0	74	49-114
Chrysene	37.8	50.0	76	50-113
Benzo(b)fluoranthene	41.0	50.0	82	56-103
Benzo(k)fluoranthene	37.0	50.0	74	48-110
Benzo(a)pyrene	42.6	50.0	85	56-107
Indeno(1,2,3-cd)pyrene	44.9	50.0	90	54-115
Dibenz(a,h)anthracene	44.7	50.0	89	51-125
Benzo(g,h,i)perylene	46.4	50.0	93	53-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: N/A
Date Received: N/A

Dissolved Metals

Sample Name: Method Blank
Lab Code: MB10-1215

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3005A	6020	0.0005	0.00028	1.0	12/15/2006	12/22/2006	U	
Chromium	EPA 3005A	6020	0.002	0.0001	1.0	12/15/2006	01/02/2007	U	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: N/A
Date Received: N/A

Total Metals

Sample Name: Method Blank
Lab Code: MB7-1219

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/19/2006	12/23/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/19/2006	12/23/2006	0.00056	i

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006
Date Extracted: 12/19/2006
Date Analyzed: 12/23/2006

Matrix Spike Summary Total Metals

Sample Name: EB01-121406S
Lab Code: J0605982-007S

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spike Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.05	U	0.054	108	75 - 125	
Chromium	EPA 3020A	6020	0.0020	0.05	0.00074	0.050	99	75 - 125	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006
Date Extracted: 12/19/2006
Date Analyzed: 12/23/2006

Matrix Spike Summary Total Metals

Sample Name: EB01-121406SD
Lab Code: J0605982-007SD

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spike Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.05	U	0.053	106	75 - 125	
Chromium	EPA 3020A	6020	0.0020	0.05	0.00074	0.050	99	75 - 125	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: 12/14/2006
Date Received: 12/14/2006
Date Extracted: 12/19/2006
Date Analyzed: 12/23/2006

Matrix Spike/Matrix Spike Duplicate Summary Total Metals

Sample Name: EB01-121406
Lab Code: J0605982-007

J0605982-007SD

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	Spike Sample Results	Spiked Duplicate Results	Relative Percent Difference	CAS Percent Difference Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.054	0.053	1.9	30	
Chromium	EPA 3020A	6020	0.0020	0.050	0.050	<1.0	30	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: N/A
Date Received: N/A
Date Extracted: 12/19/2006
Date Analyzed: 12/23/2006

Laboratory Control Sample Summary Total Metals

Sample Name: Lab Control Sample
Lab Code: LCS7-1219

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.05	0.052	104	80 - 120	
Chromium	EPA 3020A	6020	0.0020	0.05	0.049	98	80 - 120	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville/ Site Wide
Project Number: 045006-091
Matrix: WATER

Service Request: J0605982
Date Collected: N/A
Date Received: N/A
Date Extracted: 12/15/2006
Date Analyzed: 12/22/2006

Laboratory Control Sample Summary Dissolved Metals

Sample Name: Lab Control Sample
Lab Code: LCS10-1215

Units: mg/L
Basis: N/A

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3005A	6020	0.00050	0.05	0.052	104	80 - 120	
Chromium	EPA 3005A	6020	0.002	0.05	0.051	102	80 - 120	

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Deguer

Service Request # _____

Project: Site Wide

Cooler received on 12-14-06

and opened on 12-14-06 by JCS

COURIER: CAS UPS FEDEX DHL CLIENT Tracking # _____

- | | | | | |
|--|---|------------------------------------|-----------|------------|
| 1 | Were custody seals on outside of cooler? | Yes | <u>No</u> | N/A |
| 2 | Were seals intact, signed and dated? | Yes | No | <u>N/A</u> |
| 3 | Were custody papers properly filled out? | Yes | No | <u>N/A</u> |
| 4 | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) | <u>-0.1°C -0.4°C -0.4°C -0.3°C</u> | | |
| 5 | Correct Temperature? | <u>Yes</u> | No | N/A |
| 6 | Were Ice or Ice Packs present | <u>Yes</u> | No | N/A |
| 7 | Did all bottles arrive in good condition (unbroken, etc....)? | <u>Yes</u> | No | N/A |
| 8 | Were all bottle labels complete (sample ID, preservation, etc....)? | Yes | <u>No</u> | N/A |
| 9 | Did all bottle labels and tags agree with custody papers? | <u>Yes</u> | No | N/A |
| 10 | Were the correct bottles used for the tests indicated? | <u>Yes</u> | No | N/A |
| 11 | Were all of the preserved bottles received with the appropriate preservative? | <u>Yes</u> | No | N/A |
| <u>HNO₃ pH<2</u> H ₂ SO ₄ pH<2 ZnAc ₂ /NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below | | | | |
| 12 | Were all samples received within analysis holding times? | <u>Yes</u> | No | N/A |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below | Yes | No | <u>N/A</u> |
| 14 | Where did the bottles originate? | <u>CAS</u> | Client | |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:

One label was blank, matched up to correct sample through process of elimination. TDK 12/14/06

Client approval to run samples if discrepancies noted:

Date: 3

SR#: J

Date: 12-14-06

Initials: *SL*

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

[illegible]

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

CAS Contact

#SR

2865090

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Preservative)		PRESERVATIVE		NUMBER OF CONTAINERS		SAMPLING DATE		LAB ID		CLIENT SAMPLE ID		SAMPLING TIME		MATRIX		REMARKS/ALTERNATE DESCRIPTION	
GAINESVILLE / SITE WIDE		045006-091																			
Project Manager		Email Address																			
KAREN FROMME																					
Company/Address																					
FTS																					
200 THIRD AVE																					
CARNEGIE, PA 15106																					
Phone #		FAX #																			
(412) 279-3363		(412) 279-4332																			
Sample's Signature		Sample's Printed Name																			
Jeff Leaver		JEFF LEAVER																			
DU801-121406																					
M05B-121406																					
M33B-121406																					
ITW12-121406																					
ITW30-121406																					
ESE001-121406																					
EB01-121406																					

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

15COC-08/28/06

Field and Technical Services, LLC

DATE: January 10, 2007

FROM: Jon Livingston

SUBJECT: INORGANIC AND ORGANIC DATA EVALUATION – BTEX, SVOCs, Metals
(Dissolved)
GAINESVILLE – Shallow Aquifer
SAMPLE DELIVERY GROUP (SDG) – J0605945

SAMPLES:

EW-1	EW-2	EW-3
EW-5	EW-6	EW-8
EW-9	EW-10	EW-11
EW-13	EW-14	EW-15
EW-16	EW-17	

Overview

The sample set for SDG J0605945 consists of 14 groundwater samples.

All samples were analyzed for select volatile organic compounds (VOCs), select semivolatile organic compounds (SVOCs), and select metals (dissolved). The samples were collected by Field and Technical Services on 12/13/06 and analyzed by Columbia Analytical Services, Inc.

The data contained in this SDG were evaluated with regard to the following parameters:

- * • Data Completeness
- * • Holding Times
- Laboratory Method Blank Results
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate
- * • Laboratory Control Sample

The symbol (*) indicates that all quality control criteria were met for this parameter.

Summary of Data Evaluation

- Total and dissolved chromium was detected in the method blank (J0605945-MBW).
- SVOC surrogate recovery was less than control limits in a few samples.
- The sample EW-13 recovered the internal standard naphthalene-d8 less than the lower control limit causing the sample to be analyzed at a dilution.
- The MS/MSD of sample EW-16 recovered many compounds outside the established quality control limits.

The MS/MSD of sample EW-16 recovered total and dissolved arsenic greater than the upper quality control limits.

VOCs – SW846 8260B

No qualifications were made to this fraction.

SVOCs – SW846 8270C

The samples EW-3, EW-5, and EW-9 recovered the surrogate nitrobenzene less than the lower control limits. Sample EW-6 recovered nitrobenzene and 2-fluorobiphenyl less than the lower control limits. No action was taken based on only one surrogate from each acid/ base fraction was recovered less than the lower control limit.

The internal standard naphthalene-d8 was recovered less than the control limits in sample EW-13. The subsequent dilution was acceptable and shall be used in place of the initial analysis.

The MS/MSD of sample EW-16 recovered naphthalene, acenaphthene, fluorene, pentachlorophenol, and phenanthrene greater than the upper quality control limits. No action was taken as the sample concentration was four times greater than the spiking solution concentration. Anthracene, carbazole, and fluoranthene were recovered greater than the upper quality control limit. Indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were recovered less than the lower quality control limit. No action was taken based on matrix spike recoveries alone. The analysis was in control demonstrated by the successful recovery of the LCS.

Metals – SW846 6020

The following analytes were detected in the aqueous method blank (J0605945-MBW) at the following concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Dissolved Chromium	0.00018 mg/L	0.0009 mg/L
Total Chromium	0.0004 mg/L	0.002 mg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for laboratory contamination. Associated samples with concentrations below the blank action level were qualified with a "U" for laboratory contamination.

The MS/MSD of sample EW-16 recovered total and dissolved arsenic greater than upper quality control limit. No action was taken based on the sample concentration was greater than four times the spiking solution concentrations.



Jon Livingston
Field and Technical Services
Data Analyst

Laboratory Form I's

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Volatile Organic Compounds by GC/MS

Sample Name: EW-2
Lab Code: J0605945-002
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	1.0	0.088	1	12/17/06	12/17/06	JWG0604036	
Toluene	ND	U	1.0	0.13	1	12/17/06	12/17/06	JWG0604036	
Ethylbenzene	ND	U	1.0	0.12	1	12/17/06	12/17/06	JWG0604036	
m,p-Xylenes	ND	U	2.0	0.19	1	12/17/06	12/17/06	JWG0604036	
o-Xylene	ND	U	1.0	0.083	1	12/17/06	12/17/06	JWG0604036	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	71-122	12/17/06	Acceptable
4-Bromofluorobenzene	84	79-120	12/17/06	Acceptable
Toluene-d8	107	88-117	12/17/06	Acceptable
Dibromofluoromethane	84	82-116	12/17/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Volatile Organic Compounds by GC/MS

Sample Name: EW-16
Lab Code: J0605945-013
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	0.41 X J	1.0	0.088	1	12/17/06	12/17/06	JWG0604036	
Toluene	0.72 X J	1.0	0.13	1	12/17/06	12/17/06	JWG0604036	
Ethylbenzene	1.3	1.0	0.12	1	12/17/06	12/17/06	JWG0604036	
m,p-Xylenes	2.7	2.0	0.19	1	12/17/06	12/17/06	JWG0604036	
o-Xylene	1.6	1.0	0.083	1	12/17/06	12/17/06	JWG0604036	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	71-122	12/17/06	Acceptable
4-Bromofluorobenzene	85	79-120	12/17/06	Acceptable
Toluene-d8	109	88-117	12/17/06	Acceptable
Dibromofluoromethane	87	82-116	12/17/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Volatile Organic Compounds by GC/MS

Sample Name: EW-17
Lab Code: J0605945-014
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	83	1.0	0.088	1	12/18/06	12/18/06	JWG0604036	
Toluene	180	1.0	0.13	1	12/18/06	12/18/06	JWG0604036	
Ethylbenzene	89	1.0	0.12	1	12/18/06	12/18/06	JWG0604036	
m,p-Xylenes	160	2.0	0.19	1	12/18/06	12/18/06	JWG0604036	
o-Xylene	82	1.0	0.083	1	12/18/06	12/18/06	JWG0604036	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	12/18/06	Acceptable
4-Bromofluorobenzene	86	79-120	12/18/06	Acceptable
Toluene-d8	103	88-117	12/18/06	Acceptable
Dibromofluoromethane	85	82-116	12/18/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-1
 Lab Code: J0605945-001
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.3	1.8	1	12/15/06	12/26/06	JWG0604040	
2-Methylphenol	ND	U	5.3	0.46	1	12/15/06	12/26/06	JWG0604040	
4-Methylphenol†	ND	U	5.3	0.77	1	12/15/06	12/26/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.3	0.56	1	12/15/06	12/26/06	JWG0604040	
Naphthalene	ND	U	5.3	0.43	1	12/15/06	12/26/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.3	0.44	1	12/15/06	12/26/06	JWG0604040	
Acenaphthylene	ND	U	5.3	0.36	1	12/15/06	12/26/06	JWG0604040	
Acenaphthene	ND	U	5.3	0.34	1	12/15/06	12/26/06	JWG0604040	
Dibenzofuran	ND	U	5.3	0.46	1	12/15/06	12/26/06	JWG0604040	
Fluorene	ND	U	5.3	0.38	1	12/15/06	12/26/06	JWG0604040	
Pentachlorophenol	ND	U	21	0.41	1	12/15/06	12/26/06	JWG0604040	
Phenanthrene	ND	U	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Anthracene	ND	U	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Carbazole	ND	U	5.3	0.58	1	12/15/06	12/26/06	JWG0604040	
Fluoranthene	ND	U	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Pyrene	ND	U	5.3	0.45	1	12/15/06	12/26/06	JWG0604040	
Benz(a)anthracene	ND	U	5.3	0.59	1	12/15/06	12/26/06	JWG0604040	
Chrysene	ND	U	5.3	0.54	1	12/15/06	12/26/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.3	0.61	1	12/15/06	12/26/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.3	0.60	1	12/15/06	12/26/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.3	0.58	1	12/15/06	12/26/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.3	0.56	1	12/15/06	12/26/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.3	0.59	1	12/15/06	12/26/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.3	0.52	1	12/15/06	12/26/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-1
Lab Code: J0605945-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	25	10-77	12/26/06	Acceptable
Phenol-d6	14	10-51	12/26/06	Acceptable
Nitrobenzene-d5	48	42-106	12/26/06	Acceptable
2-Fluorobiphenyl	59	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	58	30-141	12/26/06	Acceptable
Terphenyl-d14	60	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-2
 Lab Code: J0605945-002
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.4	1.9	1	12/15/06	12/26/06	JWG0604040	
2-Methylphenol	ND	U	5.4	0.48	1	12/15/06	12/26/06	JWG0604040	
4-Methylphenol†	ND	U	5.4	0.79	1	12/15/06	12/26/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.4	0.57	1	12/15/06	12/26/06	JWG0604040	
Naphthalene	ND	U	5.4	0.45	1	12/15/06	12/26/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.4	0.46	1	12/15/06	12/26/06	JWG0604040	
Acenaphthylene	ND	U	5.4	0.37	1	12/15/06	12/26/06	JWG0604040	
Acenaphthene	ND	U	5.4	0.35	1	12/15/06	12/26/06	JWG0604040	
Dibenzofuran	ND	U	5.4	0.48	1	12/15/06	12/26/06	JWG0604040	
Fluorene	ND	U	5.4	0.39	1	12/15/06	12/26/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.42	1	12/15/06	12/26/06	JWG0604040	
Phenanthrene	ND	U	5.4	0.28	1	12/15/06	12/26/06	JWG0604040	
Anthracene	ND	U	5.4	0.28	1	12/15/06	12/26/06	JWG0604040	
Carbazole	ND	U	5.4	0.60	1	12/15/06	12/26/06	JWG0604040	
Fluoranthene	ND	U	5.4	0.28	1	12/15/06	12/26/06	JWG0604040	
Pyrene	ND	U	5.4	0.47	1	12/15/06	12/26/06	JWG0604040	
Benz(a)anthracene	ND	U	5.4	0.61	1	12/15/06	12/26/06	JWG0604040	
Chrysene	ND	U	5.4	0.55	1	12/15/06	12/26/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.4	0.63	1	12/15/06	12/26/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.4	0.62	1	12/15/06	12/26/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.4	0.60	1	12/15/06	12/26/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.4	0.57	1	12/15/06	12/26/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.4	0.61	1	12/15/06	12/26/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.4	0.53	1	12/15/06	12/26/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-2
Lab Code: J0605945-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	21	10-77	12/26/06	Acceptable
Phenol-d6	12	10-51	12/26/06	Acceptable
Nitrobenzene-d5	42	42-106	12/26/06	Acceptable
2-Fluorobiphenyl	50	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	52	30-141	12/26/06	Acceptable
Terphenyl-d14	58	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-3
 Lab Code: J0605945-003
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.5	1.9	1	12/15/06	12/26/06	JWG0604040	
2-Methylphenol	ND	U	5.5	0.49	1	12/15/06	12/26/06	JWG0604040	
4-Methylphenol†	ND	U	5.5	0.81	1	12/15/06	12/26/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.5	0.59	1	12/15/06	12/26/06	JWG0604040	
Naphthalene	87		5.5	0.46	1	12/15/06	12/26/06	JWG0604040	
2-Methylnaphthalene	6.1		5.5	0.47	1	12/15/06	12/26/06	JWG0604040	
Acenaphthylene	0.51	X J	5.5	0.38	1	12/15/06	12/26/06	JWG0604040	
Acenaphthene	38		5.5	0.36	1	12/15/06	12/26/06	JWG0604040	
Dibenzofuran	23		5.5	0.49	1	12/15/06	12/26/06	JWG0604040	
Fluorene	23		5.5	0.40	1	12/15/06	12/26/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.43	1	12/15/06	12/26/06	JWG0604040	
Phenanthrene	5.8		5.5	0.29	1	12/15/06	12/26/06	JWG0604040	
Anthracene	0.95	X J	5.5	0.29	1	12/15/06	12/26/06	JWG0604040	
Carbazole	36		5.5	0.61	1	12/15/06	12/26/06	JWG0604040	
Fluoranthene	ND	U	5.5	0.29	1	12/15/06	12/26/06	JWG0604040	
Pyrene	ND	U	5.5	0.48	1	12/15/06	12/26/06	JWG0604040	
Benz(a)anthracene	ND	U	5.5	0.62	1	12/15/06	12/26/06	JWG0604040	
Chrysene	ND	U	5.5	0.57	1	12/15/06	12/26/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.5	0.64	1	12/15/06	12/26/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.5	0.63	1	12/15/06	12/26/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.5	0.61	1	12/15/06	12/26/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.59	1	12/15/06	12/26/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.5	0.62	1	12/15/06	12/26/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.5	0.54	1	12/15/06	12/26/06	JWG0604040	

Comments:

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-3
Lab Code: J0605945-003

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	21	10-77	12/26/06	Acceptable
Phenol-d6	12	10-51	12/26/06	Acceptable
Nitrobenzene-d5	41	42-106	12/26/06	Outside Control Limits
2-Fluorobiphenyl	53	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	67	30-141	12/26/06	Acceptable
Terphenyl-d14	55	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-5
 Lab Code: J0605945-004
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.3	1.8	1	12/15/06	12/26/06	JWG0604040	
2-Methylphenol	ND	U	5.3	0.47	1	12/15/06	12/26/06	JWG0604040	
4-Methylphenol†	ND	U	5.3	0.77	1	12/15/06	12/26/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.3	0.56	1	12/15/06	12/26/06	JWG0604040	
Naphthalene	7.6		5.3	0.44	1	12/15/06	12/26/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.3	0.45	1	12/15/06	12/26/06	JWG0604040	
Acenaphthylene	ND	U	5.3	0.36	1	12/15/06	12/26/06	JWG0604040	
Acenaphthene	11		5.3	0.34	1	12/15/06	12/26/06	JWG0604040	
Dibenzofuran	2.3	X J	5.3	0.47	1	12/15/06	12/26/06	JWG0604040	
Fluorene	3.6	X J	5.3	0.38	1	12/15/06	12/26/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.42	1	12/15/06	12/26/06	JWG0604040	
Phenanthrene	0.59	X J	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Anthracene	0.47	X J	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Carbazole	1.5	X J	5.3	0.58	1	12/15/06	12/26/06	JWG0604040	
Fluoranthene	1.5	X J	5.3	0.28	1	12/15/06	12/26/06	JWG0604040	
Pyrene	0.55	X J	5.3	0.46	1	12/15/06	12/26/06	JWG0604040	
Benz(a)anthracene	ND	U	5.3	0.59	1	12/15/06	12/26/06	JWG0604040	
Chrysene	ND	U	5.3	0.54	1	12/15/06	12/26/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.3	0.62	1	12/15/06	12/26/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.3	0.60	1	12/15/06	12/26/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.3	0.58	1	12/15/06	12/26/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.3	0.56	1	12/15/06	12/26/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.3	0.59	1	12/15/06	12/26/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.3	0.52	1	12/15/06	12/26/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-5
Lab Code: J0605945-004

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	18	10-77	12/26/06	Acceptable
Phenol-d6	11	10-51	12/26/06	Acceptable
Nitrobenzene-d5	34	42-106	12/26/06	Outside Control Limits
2-Fluorobiphenyl	48	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	64	30-141	12/26/06	Acceptable
Terphenyl-d14	51	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-6
 Lab Code: J0605945-005
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.7	2.0	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND	U	5.7	0.50	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND	U	5.7	0.83	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.7	0.60	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	ND	U	5.7	0.47	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.7	0.48	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	ND	U	5.7	0.39	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	ND	U	5.7	0.36	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	ND	U	5.7	0.50	1	12/15/06	12/27/06	JWG0604040	
Fluorene	ND	U	5.7	0.41	1	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	ND	U	23	0.44	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	ND	U	5.7	0.30	1	12/15/06	12/27/06	JWG0604040	
Anthracene	ND	U	5.7	0.30	1	12/15/06	12/27/06	JWG0604040	
Carbazole	ND	U	5.7	0.62	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	0.55	X	5.7	0.30	1	12/15/06	12/27/06	JWG0604040	
Pyrene	ND	U	5.7	0.49	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND	U	5.7	0.63	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND	U	5.7	0.58	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.7	0.66	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.7	0.65	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.7	0.62	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.7	0.60	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.7	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.7	0.56	1	12/15/06	12/27/06	JWG0604040	

Comments:

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-6
Lab Code: J0605945-005

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	16	10-77	12/27/06	Acceptable
Phenol-d6	10	10-51	12/27/06	Acceptable
Nitrobenzene-d5	36	42-106	12/27/06	Outside Control Limits
2-Fluorobiphenyl	33	43-99	12/27/06	Outside Control Limits
2,4,6-Tribromophenol	50	30-141	12/27/06	Acceptable
Terphenyl-d14	29	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-8
 Lab Code: J0605945-006
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND U	5.5	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND U	5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND U	5.5	0.81	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	ND U	5.5	0.46	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	ND U	5.5	0.47	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	ND U	5.5	0.38	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	2.8 X J	5.5	0.36	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	2.9 X J	5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
Fluorene	4.1 X J	5.5	0.40	1	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	ND U	22	0.43	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	0.89 X J	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Anthracene	ND U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Carbazole	6.0	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	ND U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Pyrene	ND U	5.5	0.48	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND U	5.5	0.57	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND U	5.5	0.64	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND U	5.5	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND U	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND U	5.5	0.54	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-8
Lab Code: J0605945-006

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	24	10-77	12/27/06	Acceptable
Phenol-d6	14	10-51	12/27/06	Acceptable
Nitrobenzene-d5	50	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	56	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	69	30-141	12/27/06	Acceptable
Terphenyl-d14	58	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-9
 Lab Code: J0605945-007
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.5	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND	U	5.5	0.48	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND	U	5.5	0.80	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.5	0.58	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	ND	U	5.5	0.45	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.5	0.46	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	ND	U	5.5	0.37	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	5.7		5.5	0.35	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	2.3	X U	5.5	0.48	1	12/15/06	12/27/06	JWG0604040	
Fluorene	4.5	X U	5.5	0.40	1	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.43	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	ND	U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Anthracene	0.30	X U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Carbazole	ND	U	5.5	0.60	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	0.70	X U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Pyrene	ND	U	5.5	0.47	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND	U	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND	U	5.5	0.56	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.5	0.64	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.5	0.60	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.58	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.5	0.54	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-9
Lab Code: J0605945-007

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	20	10-77	12/27/06	Acceptable
Phenol-d6	11	10-51	12/27/06	Acceptable
Nitrobenzene-d5	41	42-106	12/27/06	Outside Control Limits
2-Fluorobiphenyl	51	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	61	30-141	12/27/06	Acceptable
Terphenyl-d14	55	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-10
 Lab Code: J0605945-008
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.4	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND	U	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND	U	5.4	0.78	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	ND	U	5.4	0.44	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.4	0.45	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	ND	U	5.4	0.37	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	ND	U	5.4	0.35	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	ND	U	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
Fluorene	ND	U	5.4	0.39	1	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.42	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	ND	U	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Anthracene	ND	U	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Carbazole	ND	U	5.4	0.59	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	ND	U	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Pyrene	ND	U	5.4	0.46	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND	U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND	U	5.4	0.55	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.4	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.4	0.59	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.4	0.53	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-10
Lab Code: J0605945-008

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	21	10-77	12/27/06	Acceptable
Phenol-d6	13	10-51	12/27/06	Acceptable
Nitrobenzene-d5	43	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	62	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	70	30-141	12/27/06	Acceptable
Terphenyl-d14	55	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-11
 Lab Code: J0605945-009
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.5	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND	U	5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND	U	5.5	0.81	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	ND	U	5.5	0.46	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	ND	U	5.5	0.47	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	ND	U	5.5	0.38	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	9.4		5.5	0.36	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	3.0	X J	5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
Fluorene	4.2	X J	5.5	0.40	1	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	ND	U	22	0.43	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	0.41	X J	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Anthracene	ND	U	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Carbazole	3.8	X J	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	0.55	X J	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Pyrene	ND	U	5.5	0.48	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND	U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND	U	5.5	0.57	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.5	0.64	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.5	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.5	0.54	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-11
Lab Code: J0605945-009

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	22	10-77	12/27/06	Acceptable
Phenol-d6	14	10-51	12/27/06	Acceptable
Nitrobenzene-d5	46	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	61	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	73	30-141	12/27/06	Acceptable
Terphenyl-d14	57	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-13
 Lab Code: J0605945-010
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND U	5.4	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND U	5.4	0.48	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND U	5.4	0.79	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	27 X J	54	5.7	10	12/15/06	12/27/06	JWG0604040	
Naphthalene	3800	270	23	50	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	410	54	4.6	10	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	13	5.4	0.37	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	310	54	3.5	10	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	140	5.4	0.48	1	12/15/06	12/27/06	JWG0604040	
Fluorene	190	54	3.9	10	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	0.84 X J	22	0.42	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	91	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Anthracene	7.1	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Carbazole	390	54	6.0	10	12/15/06	12/27/06	JWG0604040	
Fluoranthene	4.3 X J	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Pyrene	1.5 X J	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND U	5.4	0.55	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND U	5.4	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND U	5.4	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND U	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND U	5.4	0.53	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-13
Lab Code: J0605945-010

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	24	10-77	12/27/06	Acceptable
Phenol-d6	10	10-51	12/27/06	Acceptable
Nitrobenzene-d5	56	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	60	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	73	30-141	12/27/06	Acceptable
Terphenyl-d14	49	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-14
 Lab Code: J0605945-011
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND U	5.4	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND U	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND U	5.4	0.78	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	14	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	1400	54	4.4	10	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	400	54	4.5	10	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	10	5.4	0.37	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	290	54	3.5	10	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	140	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
Fluorene	190	54	3.9	10	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	1.1 X J	22	0.42	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	130	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Anthracene	19	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Carbazole	320	54	5.9	10	12/15/06	12/27/06	JWG0604040	
Fluoranthene	9.5	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Pyrene	2.4 X J	5.4	0.46	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND U	5.4	0.55	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND U	5.4	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND U	5.4	0.59	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND U	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND U	5.4	0.53	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-14
Lab Code: J0605945-011

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	21	10-77	12/27/06	Acceptable
Phenol-d6	17	10-51	12/27/06	Acceptable
Nitrobenzene-d5	93	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	57	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	67	30-141	12/27/06	Acceptable
Terphenyl-d14	50	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-15
 Lab Code: J0605945-012
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	5.5	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND	U	5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND	U	5.5	0.81	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	ND	U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	170		5.5	0.46	1	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	64		5.5	0.47	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	1.2	X J	5.5	0.38	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	100		5.5	0.36	1	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	87		5.5	0.49	1	12/15/06	12/27/06	JWG0604040	
Fluorene	110		11	0.80	2	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	11	X J	22	0.43	1	12/15/06	12/27/06	JWG0604040	
Phenanthrene	54		5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Anthracene	8.9		5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Carbazole	49		5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	3.8	X J	5.5	0.29	1	12/15/06	12/27/06	JWG0604040	
Pyrene	0.90	X J	5.5	0.48	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND	U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND	U	5.5	0.57	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND	U	5.5	0.64	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND	U	5.5	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND	U	5.5	0.61	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.59	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND	U	5.5	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND	U	5.5	0.54	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-15
Lab Code: J0605945-012

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	19	10-77	12/27/06	Acceptable
Phenol-d6	12	10-51	12/27/06	Acceptable
Nitrobenzene-d5	44	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	55	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	69	30-141	12/27/06	Acceptable
Terphenyl-d14	54	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: 12/13/2006
 Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-16
 Lab Code: J0605945-013
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND U	5.4	1.9	1	12/15/06	12/27/06	JWG0604040	
2-Methylphenol	ND U	5.4	0.48	1	12/15/06	12/27/06	JWG0604040	
4-Methylphenol†	ND U	5.4	0.79	1	12/15/06	12/27/06	JWG0604040	
2,4-Dimethylphenol	0.70 X J	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Naphthalene	300	27	2.3	5	12/15/06	12/27/06	JWG0604040	
2-Methylnaphthalene	150	5.4	0.46	1	12/15/06	12/27/06	JWG0604040	
Acenaphthylene	4.2 X J	5.4	0.37	1	12/15/06	12/27/06	JWG0604040	
Acenaphthene	220	27	1.8	5	12/15/06	12/27/06	JWG0604040	
Dibenzofuran	150	5.4	0.48	1	12/15/06	12/27/06	JWG0604040	
Fluorene	210	27	2.0	5	12/15/06	12/27/06	JWG0604040	
Pentachlorophenol	9100	2200	42	100	12/15/06	12/27/06	JWG0604040	
Phenanthrene	220	27	1.4	5	12/15/06	12/27/06	JWG0604040	
Anthracene	28	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Carbazole	84	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Fluoranthene	14	5.4	0.28	1	12/15/06	12/27/06	JWG0604040	
Pyrene	2.3 X J	5.4	0.47	1	12/15/06	12/27/06	JWG0604040	
Benz(a)anthracene	ND U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Chrysene	ND U	5.4	0.55	1	12/15/06	12/27/06	JWG0604040	
Benzo(b)fluoranthene	ND U	5.4	0.63	1	12/15/06	12/27/06	JWG0604040	
Benzo(k)fluoranthene	ND U	5.4	0.62	1	12/15/06	12/27/06	JWG0604040	
Benzo(a)pyrene	ND U	5.4	0.60	1	12/15/06	12/27/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND U	5.4	0.57	1	12/15/06	12/27/06	JWG0604040	
Dibenz(a,h)anthracene	ND U	5.4	0.61	1	12/15/06	12/27/06	JWG0604040	
Benzo(g,h,i)perylene	ND U	5.4	0.53	1	12/15/06	12/27/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: 12/13/2006
Date Received: 12/13/2006

Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-16
Lab Code: J0605945-013

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	20	10-77	12/27/06	Acceptable
Phenol-d6	13	10-51	12/27/06	Acceptable
Nitrobenzene-d5	46	42-106	12/27/06	Acceptable
2-Fluorobiphenyl	56	43-99	12/27/06	Acceptable
2,4,6-Tribromophenol	84	30-141	12/27/06	Acceptable
Terphenyl-d14	51	23-165	12/27/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-5
Lab Code: J0605945-004
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.042	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0013	X U

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-6
Lab Code: J0605945-005
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.0016	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0028	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-8
Lab Code: J0605945-006
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.011	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0010	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-9
Lab Code: J0605945-007
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.064	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0012	10

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-10
Lab Code: J0605945-008
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.060	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.049	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-11
Lab Code: J0605945-009
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.031	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0089	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-13
Lab Code: J0605945-010
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.027	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0016	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-14
Lab Code: J0605945-011
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.042	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-15
Lab Code: J0605945-012
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.079	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0019	XU

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-16
Lab Code: J0605945-013
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.010	0.0057	20	12/18/06	12/28/2006	5.1	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0053	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

TOTAL METALS

Sample Name: EW-17
Lab Code: J0605945-014
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	0.0072	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.0016	XU

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-5
Lab Code: J0605945-004
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.047	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0010	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-6
Lab Code: J0605945-005
Test Notes:

Unit: mg/L (ppm)
 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.0028	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0038	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-8
Lab Code: J0605945-006
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.0092	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.00079	XU

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-9
Lab Code: J0605945-007
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.021	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.00060	X U

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-10
Lab Code: J0605945-008
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.00073	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.00075	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-11
Lab Code: J0605945-009
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.036	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0014	✓ J

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-13
Lab Code: J0605945-010
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.027	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0016	✓

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-14
Lab Code: J0605945-011
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.033	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-15
Lab Code: J0605945-012
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	0.077	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0015	X J

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-16
Lab Code: J0605945-013
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	4.7	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.0050	

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06

DISSOLVED METALS

Sample Name: EW-17
Lab Code: J0605945-014
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/18/2006	0.0066	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/18/2006	0.0012	✓ J

Supporting Documentation

January 02, 2007

Service Request No: J0605945

Angela Gatchie
Field and Technical Services, LLC
200 Third Avenue
Carnegie, PA 15106

RE: Gainesville, FL/045006-091

Dear Angela:

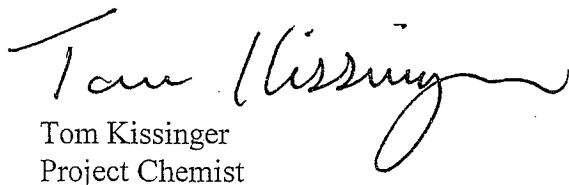
Enclosed are the results of the sample(s) submitted to our laboratory on December 13, 2006. For your reference, these analyses have been assigned our service request number J0605945.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 289. You may also contact me via email at TKissinger@jax.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Tom Kissinger
Project Chemist

Page 1 of

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Laboratory Manager: Greg Jordan

Quality Assurance Officer: Kathy Brungard

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/07. Other state accreditations include: Arkansas, #88-0600 valid through 1/12/06; Georgia, #904 valid through 6/30/07; Louisiana, #02086 valid through 6/30/07; Texas, #T104704197-06-TX valid through 5/31/07; North Carolina, #527 valid through 12/31/06; and South Carolina, #96021001 valid through 6/30/07.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Field and Technical Services, LLC
Project: Gainesville, FL
Sample Matrix: water

Service Request No.: J0605945
Date Received: 12/13/06

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

14 water samples were received for analysis at Columbia Analytical Services on 12/13/06. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $4\pm 2^{\circ}\text{C}$ upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

No problems were observed with this delivery group.

Semivolatile Organics by GC-MS

Surrogate Exceptions

The control criteria were exceeded for the following surrogate in samples EW-3, EW-5, and EW-9 due to suspected matrix interferences: Nitrobenzene-d5. An emulsion was formed in sample during the extraction procedure, which is suspected of adversely affecting the recovery. No further corrective action was appropriate.

The control criteria were exceeded for the following surrogates in sample EW-6 due to suspected matrix interferences: Nitrobenzene-d5 and 2-Fluorobiphenyl. An emulsion was formed in sample during the extraction procedure, which is suspected of adversely affecting the recovery. No further corrective action was appropriate.

The recovery of the following surrogate in sample EW-13 was reported from a dilution analysis due to matrix interferences: Nitrobenzene-d5. No further corrective action was appropriate.

Internal Standard Exceptions

The internal standard recovery of Naphthalene-d8 in sample EW-13 was outside control criteria because of suspected matrix interference. The sample required dilution analysis and had acceptable internal standard recovery. Affected analytes are reported from the dilution analysis.

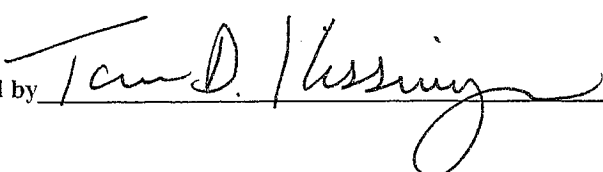
Matrix Spike Recovery Exceptions

The control criteria for matrix spike and duplicate matrix spike recovery of most analytes for sample EW-16 are not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Elevated Method Reporting Limits

Sample EW-13 had elevated reporting limit for 2,4-Dimethylphenol due to matrix interference (See Internal Standard Exceptions).

Approved by

 Date 1/2/07

Metals by ICP-MS

Matrix Spike Recovery Exceptions

The control criteria for matrix spike recoveries of Arsenic for sample EW-16 (Total and Dissolved) are not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by

Tamara D. Hissinger

Date

1/2/07

Florida DEP Data Qualifiers

- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- H Value based on field kit determination; results may not be accurate.
- i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
 2. No known quality control criteria exists for the component.
 3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
- K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
- L Off scale high. The analyte is above the upper limit of the linear calibration range.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
- N Presumptive evidence of the analyte. Confirmation was not performed.
- Q Sample held beyond the accepted holding time.
- T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample.
- Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Field and Technical Services, LLC
Project: Gainesville, FL/045006-091

Service Request: J0605945

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J0605945-001	EW-1	12/13/06	09:20
J0605945-002	EW-2	12/13/06	09:30
J0605945-003	EW-3	12/13/06	09:45
J0605945-004	EW-5	12/13/06	10:00
J0605945-005	EW-6	12/13/06	10:10
J0605945-006	EW-8	12/13/06	10:15
J0605945-007	EW-9	12/13/06	10:25
J0605945-008	EW-10	12/13/06	12:45
J0605945-009	EW-11	12/13/06	10:35
J0605945-010	EW-13	12/13/06	10:45
J0605945-011	EW-14	12/13/06	11:00
J0605945-012	EW-15	12/13/06	11:10
J0605945-013	EW-16	12/13/06	14:20
J0605945-014	EW-17	12/13/06	11:20

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0604036-4
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	1.0	0.088	1	12/17/06	12/17/06	JWG0604036	
Toluene	ND	U	1.0	0.13	1	12/17/06	12/17/06	JWG0604036	
Ethylbenzene	ND	U	1.0	0.12	1	12/17/06	12/17/06	JWG0604036	
m,p-Xylenes	ND	U	2.0	0.19	1	12/17/06	12/17/06	JWG0604036	
o-Xylene	ND	U	1.0	0.083	1	12/17/06	12/17/06	JWG0604036	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	12/17/06	Acceptable
4-Bromofluorobenzene	86	79-120	12/17/06	Acceptable
Toluene-d8	108	88-117	12/17/06	Acceptable
Dibromofluoromethane	84	82-116	12/17/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Collected: NA
 Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
 Lab Code: JWG0604040-4
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND U	5.0	1.7	1	12/15/06	12/26/06	JWG0604040	
2-Methylphenol	ND U	5.0	0.44	1	12/15/06	12/26/06	JWG0604040	
4-Methylphenol†	ND U	5.0	0.73	1	12/15/06	12/26/06	JWG0604040	
2,4-Dimethylphenol	ND U	5.0	0.53	1	12/15/06	12/26/06	JWG0604040	
Naphthalene	ND U	5.0	0.41	1	12/15/06	12/26/06	JWG0604040	
2-Methylnaphthalene	ND U	5.0	0.42	1	12/15/06	12/26/06	JWG0604040	
Acenaphthylene	ND U	5.0	0.34	1	12/15/06	12/26/06	JWG0604040	
Acenaphthene	ND U	5.0	0.32	1	12/15/06	12/26/06	JWG0604040	
Dibenzofuran	ND U	5.0	0.44	1	12/15/06	12/26/06	JWG0604040	
Fluorene	ND U	5.0	0.36	1	12/15/06	12/26/06	JWG0604040	
Pentachlorophenol	ND U	20	0.39	1	12/15/06	12/26/06	JWG0604040	
Phenanthrene	ND U	5.0	0.26	1	12/15/06	12/26/06	JWG0604040	
Anthracene	ND U	5.0	0.26	1	12/15/06	12/26/06	JWG0604040	
Carbazole	ND U	5.0	0.55	1	12/15/06	12/26/06	JWG0604040	
Fluoranthene	ND U	5.0	0.26	1	12/15/06	12/26/06	JWG0604040	
Pyrene	ND U	5.0	0.43	1	12/15/06	12/26/06	JWG0604040	
Benz(a)anthracene	ND U	5.0	0.56	1	12/15/06	12/26/06	JWG0604040	
Chrysene	ND U	5.0	0.51	1	12/15/06	12/26/06	JWG0604040	
Benzo(b)fluoranthene	ND U	5.0	0.58	1	12/15/06	12/26/06	JWG0604040	
Benzo(k)fluoranthene	ND U	5.0	0.57	1	12/15/06	12/26/06	JWG0604040	
Benzo(a)pyrene	ND U	5.0	0.55	1	12/15/06	12/26/06	JWG0604040	
Indeno(1,2,3-cd)pyrene	ND U	5.0	0.53	1	12/15/06	12/26/06	JWG0604040	
Dibenz(a,h)anthracene	ND U	5.0	0.56	1	12/15/06	12/26/06	JWG0604040	
Benzo(g,h,i)perylene	ND U	5.0	0.49	1	12/15/06	12/26/06	JWG0604040	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0604040-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	25	10-77	12/26/06	Acceptable
Phenol-d6	15	10-51	12/26/06	Acceptable
Nitrobenzene-d5	48	42-106	12/26/06	Acceptable
2-Fluorobiphenyl	60	43-99	12/26/06	Acceptable
2,4,6-Tribromophenol	61	30-141	12/26/06	Acceptable
Terphenyl-d14	65	23-165	12/26/06	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: NA
Date Received: NA

TOTAL METALS

Sample Name: Method Blank
Lab Code: J0605945-MBW
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.00028	1.0	12/18/06	12/22/2006	U	
Chromium	EPA 3020A	6020	0.0020	0.00012	1.0	12/18/06	12/22/2006	0.00040	i

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: NA
Date Received: NA

DISSOLVED METALS

Sample Name: Method Blank
Lab Code: J0605945-MBW
Test Notes:

Unit: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Results	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/22/2006	U	
Arsenic	EPA 3005	6020	0.00050	0.00028	1.0	12/15/06	12/18/2006	U	
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/22/2006	0.00018	i
Chromium	EPA 3005	6020	0.0020	0.00012	1.0	12/15/06	12/18/2006	U	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>
EW-2	J0605945-002	90	84	107	84
EW-16	J0605945-013	92	85	109	87
EW-17	J0605945-014	89	86	103	85
Method Blank	JWG0604036-4	89	86	108	84
EW-16MS	JWG0604036-1	94	86	105	86
EW-16DMS	JWG0604036-2	88	89	105	87
Lab Control Sample	JWG0604036-3	93	87	107	85

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	79-120
Sur3 = Toluene-d8	88-117
Sur4 = Dibromofluoromethane	82-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Extracted: 12/17/2006
Date Analyzed: 12/17/2006 -
12/18/2006

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: EW-16
Lab Code: J0605945-013
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0604036

Analyte Name	Sample Result	EW-16MS JWG0604036-1 Matrix Spike			EW-16DMS JWG0604036-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	0.41	20.0	20.0	98	19.8	20.0	97	78-123	1	30
Toluene	0.72	22.8	20.0	111	23.0	20.0	111	86-119	0	30
Ethylbenzene	1.3	23.3	20.0	110	22.9	20.0	108	87-122	1	30
m,p-Xylenes	2.7	41.9	40.0	98	41.4	40.0	97	82-120	1	30
o-Xylene	1.6	21.7	20.0	100	21.8	20.0	101	85-119	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Extracted: 12/17/2006
Date Analyzed: 12/17/2006

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0604036

Analyte Name	Lab Control Sample JWG0604036-3			%Rec Limits
	Lab Control Spike			
	Result	Expected	%Rec	
Benzene	18.2	20.0	91	79-119
Toluene	21.1	20.0	105	86-117
Ethylbenzene	20.7	20.0	103	90-118
m,p-Xylenes	36.8	40.0	92	86-121
o-Xylene	19.4	20.0	97	89-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945

Surrogate Recovery Summary
 Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: PERCENT
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
EW-1	J0605945-001	25	14	48	59	58	60
EW-2	J0605945-002	21	12	42	50	52	58
EW-3	J0605945-003	21	12	41 #	53	67	55
EW-5	J0605945-004	18	11	34 #	48	64	51
EW-6	J0605945-005	16	10	36 #	33 #	50	29
EW-8	J0605945-006	24	14	50	56	69	58
EW-9	J0605945-007	20	11	41 #	51	61	55
EW-10	J0605945-008	21	13	43	62	70	55
EW-11	J0605945-009	22	14	46	61	73	57
EW-13	J0605945-010	24	10	56 D	60	73	49
EW-14	J0605945-011	21	17	93	57	67	50
EW-15	J0605945-012	19	12	44	55	69	54
EW-16	J0605945-013	20	13	46	56	84	51
Method Blank	JWG0604040-4	25	15	48	60	61	65
EW-16MS	JWG0604040-1	27	17	63	67	103	52
EW-16DMS	JWG0604040-2	27	17	59	61	92	49
Lab Control Sample	JWG0604040-3	30	19	61	68	69	63

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	10-77	Sur5 = 2,4,6-Tribromophenol	30-141
Sur2 = Phenol-d6	10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5	42-106		
Sur4 = 2-Fluorobiphenyl	43-99		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
 Project: Gainesville, FL/045006-091
 Sample Matrix: Water

Service Request: J0605945
 Date Extracted: 12/15/2006
 Date Analyzed: 12/26/2006

Matrix Spike/Duplicate Matrix Spike Summary
 Semi-Volatile Organic Compounds by GC/MS

Sample Name: EW-16
 Lab Code: J0605945-013
 Extraction Method: EPA 3540C
 Analysis Method: 8270C

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: JWG0604040

Analyte Name	Sample Result	EW-16MS JWG0604040-1 Matrix Spike			EW-16DMS JWG0604040-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Phenol	ND	13.7	52.1	26	14.1	52.6	27	10-70	3	30
2-Methylphenol	ND	26.1	52.1	50	25.4	52.6	48	32-96	3	30
4-Methylphenol	ND	41.9	78.1	54	40.9	78.9	52	12-106	2	30
2,4-Dimethylphenol	0.70	34.6	52.1	65	33.6	52.6	62	35-88	3	30
Naphthalene	300	238E	52.1	-114 #	242E	52.6	-105 #	44-93	2	30
2-Methylnaphthalene	150	198E	52.1	86	182E	52.6	55	48-91	9	30
Acenaphthylene	4.2	42.9	52.1	74	42.0	52.6	72	46-95	2	30
Acenaphthene	220	211E	52.1	-16 #	202E	52.6	-34 #	48-96	5	30
Dibenzofuran	150	194E	52.1	88	180E	52.6	61	49-101	7	30
Fluorene	210	206E	52.1	0 #	192E	52.6	-25 *	54-95	7	30
Pentachlorophenol	9100	4480E	52.1	-8948 #	4140E	52.6	-9497 #	18-141	8	30
Phenanthrene	220	321E	52.1	190 #	292E	52.6	132 #	52-95	10	30
Anthracene	28	84.6	52.1	108 *	82.3	52.6	102 *	53-101	3	30
Carbazole	84	160	52.1	146 *	151	52.6	127 *	52-126	6	30
Fluoranthene	14	79.1	52.1	125 *	75.1	52.6	116 *	54-103	5	30
Pyrene	2.3	29.5	52.1	52	29.1	52.6	51	49-103	1	30
Benz(a)anthracene	ND	38.5	52.1	74	37.1	52.6	70	55-104	4	30
Chrysene	ND	38.2	52.1	73	37.5	52.6	71	47-105	2	30
Benzo(b)fluoranthene	ND	41.9	52.1	81	37.9	52.6	72	54-105	10	30
Benzo(k)fluoranthene	ND	31.1	52.1	60	34.8	52.6	66	50-101	11	30
Benzo(a)pyrene	ND	45.0	52.1	86	42.7	52.6	81	56-100	5	30
Indeno(1,2,3-cd)pyrene	ND	21.3	52.1	41 *	17.7	52.6	34 *	50-115	19	30
Dibenz(a,h)anthracene	ND	23.5	52.1	45	19.6	52.6	37 *	44-124	18	30
Benzo(g,h,i)perylene	ND	13.0	52.1	25 *	9.60	52.6	18 *	51-114	30	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Beazer East, Inc.
Project: Gainesville, FL/045006-091
Sample Matrix: Water

Service Request: J0605945
Date Extracted: 12/15/2006
Date Analyzed: 12/26/2006

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3540C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0604040

Analyte Name	Lab Control Sample JWG0604040-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Phenol	12.3	50.0	25	12-54
2-Methylphenol	25.0	50.0	50	21-100
4-Methylphenol	45.0	75.0	60	15-93
2,4-Dimethylphenol	28.0	50.0	56	38-86
Naphthalene	33.0	50.0	66	44-97
2-Methylnaphthalene	35.1	50.0	70	46-97
Acenaphthylene	37.6	50.0	75	45-99
Acenaphthene	37.4	50.0	75	42-106
Dibenzofuran	36.8	50.0	74	49-103
Fluorene	37.1	50.0	74	54-97
Pentachlorophenol	29.1	50.0	58	44-120
Phenanthrene	40.3	50.0	81	52-99
Anthracene	42.1	50.0	84	52-104
Carbazole	41.8	50.0	84	48-118
Fluoranthene	43.6	50.0	87	52-110
Pyrene	31.0	50.0	62	53-100
Benz(a)anthracene	37.5	50.0	75	49-114
Chrysene	37.4	50.0	75	50-113
Benzo(b)fluoranthene	39.8	50.0	80	56-103
Benzo(k)fluoranthene	31.6	50.0	63	48-110
Benzo(a)pyrene	42.7	50.0	85	56-107
Indeno(1,2,3-cd)pyrene	41.4	50.0	83	54-115
Dibenz(a,h)anthracene	42.0	50.0	84	51-125
Benzo(g,h,i)perylene	43.1	50.0	86	53-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06
Date Extracted: 12/18/06
Date Analyzed: 12/28/2006

Matrix Spike Summary
TOTAL METALS

Sample Name: EW-16S
Lab Code: J0605945-013S
Test Notes:

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spiked Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.010	0.0500	5.13	5.23	200	75-125	
Chromium	EPA 3020A	6020	0.0020	0.0500	0.00527	0.0547	99	75-125	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06
Date Extracted: 12/18/06
Date Analyzed: 12/28/2006

Matrix Spike/Matrix Spike Duplicate Summary
TOTAL METALS

Sample Name: EW-16
Lab Code: J0605945-013S
Test Notes:

J0605945-013SD

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spiked Sample Results	Spiked Duplicate Results	Relative Percent Difference	CAS Percent Difference Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.010	5.23	5.32	1.7	20	
Chromium	EPA 3020A	6020	0.0020	0.0547	0.0563	2.7	20	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: NA
Date Received: NA
Date Extracted: 12/18/06
Date Analyzed: 12/22/2006

Laboratory Control Sample Summary TOTAL METALS

Sample Name: Laboratory Control Sample
Lab Code: J0605945-LCSW
Test Notes:

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3020A	6020	0.00050	0.0500	0.0507	101	80-120	
Chromium	EPA 3020A	6020	0.0020	0.0500	0.0508	102	80-120	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06
Date Extracted: 12/15/06
Date Analyzed: 12/22/2006

Matrix Spike Summary
DISSOLVED METALS

Sample Name: EW-16S
Lab Code: J0605945-013S
Test Notes:

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Results	Spiked Sample Results	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	EPA 3005	6020	0.00050	0.0500	4.71	4.99	560	75-125	
Chromium	EPA 3005	6020	0.0020	0.0500	0.00501	0.0526	95	75-125	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: 12/13/06
Date Received: 12/13/06
Date Extracted: 12/15/06
Date Analyzed: 12/22/2006

Matrix Spike/Matrix Spike Duplicate Summary DISSOLVED METALS

Sample Name: EW-16
Lab Code: J0605945-013S
Test Notes:

J0605945-013SD

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Spiked Sample Results	Spiked Duplicate Results	Relative Percent Difference	CAS Percent Difference Acceptance Limits	Result Notes
Arsenic	EPA 3005	6020	0.00050	4.99	4.67	6.6	20	
Chromium	EPA 3005	6020	0.0020	0.0526	0.0528	<1.0	20	

COLUMBIA ANALYTICAL SERVICES, INC

QA/QC Report

Client: Beazer East, Inc.
Project Name: Gainesville, FL
Project Number: 045006-091
Matrix: WATER

Service Request: J0605945
Date Collected: NA
Date Received: NA
Date Extracted: 12/15/06
Date Analyzed: 12/22/2006

Laboratory Control Sample Summary
DISSOLVED METALS

Sample Name: Laboratory Control Sample
Lab Code: J0605945-LCSW
Test Notes:

Unit: mg/L
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	True Value	Results	Percent Recovery	CAS Percent Recovery	Result Notes
							Acceptance Limits	
Arsenic	EPA 3005	6020	0.00050	0.0500	0.0480	96	80-120	
Arsenic	EPA 3005	6020	0.00050	0.0500	0.0492	98	80-120	
Chromium	EPA 3005	6020	0.0020	0.0500	0.0466	93	80-120	
Chromium	EPA 3005	6020	0.0020	0.0500	0.0477	95	80-120	

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Beazer
Project: Gainesville FL

Service Request # 50605945

Cooler received on 12.13.06

and opened on 12.13.06 by KW

COURIER CAS UPS FEDEX DHL CLIENT Tracking #

- | | | | | |
|----|---|---------------------------|-----------|------------|
| 1 | Were custody seals on outside of cooler? | Yes | <u>No</u> | N/A |
| 2 | Were seals intact, signed and dated? | Yes | No | <u>N/A</u> |
| 3 | Were custody papers properly filled out? | <u>Yes</u> | No | N/A |
| 4 | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) | <u>0.1, 0.0, 0.1, 0.2</u> | | |
| 5 | Correct Temperature? | <u>Yes</u> | No | N/A |
| 6 | Were Ice or Ice Packs present | <u>Yes</u> | No | N/A |
| 7 | Did all bottles arrive in good condition (unbroken, etc....)? | <u>Yes</u> | No | N/A |
| 8 | Were all bottle labels complete (sample ID, preservation, etc....)? | <u>Yes</u> | No | N/A |
| 9 | Did all bottle labels and tags agree with custody papers? | <u>Yes</u> | No | N/A |
| 10 | Were the correct bottles used for the tests indicated? | <u>Yes</u> | No | N/A |
| 11 | Were all of the preserved bottles received with the appropriate preservative? | <u>Yes</u> | No | N/A |

HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12

HCl pH<2

Preservative additions noted below

- | | | | | |
|----|---|------------|--------|-----|
| 12 | Were all samples received within analysis holding times? | <u>Yes</u> | No | N/A |
| 13 | Were VOA vials checked for absence of air bubbles? If present, note below | <u>Yes</u> | No | N/A |
| 14 | Where did the bottles originate? | <u>CAS</u> | Client | |

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Initials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted:

Date 5



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # J0605945

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Preservative)		PRESERVATIVE		NUMBER OF CONTAINERS		PRELIMINARY ANALYSIS		PRESERVATIVE KEY								
Project Manager		Email Address		Project Number		PRESERVATIVE		NUMBER OF CONTAINERS		PRELIMINARY ANALYSIS		PRESERVATIVE KEY								
Gainesville, FL		045006-091				0 1 2						Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other								
Karen Fromme																				
Field & Technical Services																				
200 3rd Ave																				
Carnegie, PA 15106																				
Phone # (412) 279-3363		FAX # (412) 279-4332																		
Sampler's Signature		Sampler's Printed Name																		
Mike McKinney																				
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ALTERNATE DESCRIPTION															
EW-1		12/13/06	0920	GW	RH															
EW-2		12/13/06	0930	GW																
EW-3		12/13/06	0945	GW																
EW-5		12/13/06	1000	GW																
EW-6		12/13/06	1010	GW																
EW-8		12/13/06	1015	GW																
EW-9		12/13/06	1025	GW																
EW-10		12/13/06	1245	GW																
EW-11		12/13/06	1035	GW																
EW-13		12/13/06	1045	GW																
SPECIAL INSTRUCTIONS/COMMENTS													INVOICE INFORMATION							
TURNAROUND REQUIREMENTS													REPORT REQUIREMENTS							
RUSH (SURCHARGES APPLY)													I. Results Only							
STANDARD					II. Results + QC Summaries (LCS, DUP, MS/MSD as required)															
REQUESTED FAX DATE					III. Results + QC and Calibration Summaries															
REQUESTED REPORT DATE					IV. Data Validation Report with Raw Data															
					V. Specialized Forms / Custom Report															
					Edata Yes No															
RECEIVED BY					RECEIVED BY															
Signature					Signature															
Printed Name					Printed Name															
Firm					Firm															
Date/Time					Date/Time															



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