



Field & Technical Services

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August 28, 2008

Mr. Scott Miller
Remedial Project Manager
U.S. Environmental Protection Agency, Region IV
4WD-SRTMB
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

**RE: 2008 Second Quarter Floridan Aquifer Groundwater Monitoring Report; and
June 23 through July 1, 2008 Water Quality Results: Upper Floridan Wells FW-10B
through FW-24C, and FW-04C
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), Field & Technical Services, LLC (FTS) is pleased to submit the 2008 Second Quarter Floridan Aquifer Groundwater Monitoring Report for the Cabot Carbon/Koppers Superfund Site in Gainesville, Florida (Site). FTS conducted this sampling in accordance with the *Revised Floridan Aquifer Monitoring Plan, Cabot Carbon/Koppers Superfund Site, Gainesville, Florida* (Monitoring Plan) (TRC Environmental Solutions, Inc. [TRC], 2004)¹. This report documents the field and laboratory results of the groundwater monitoring event performed June 23 through July 1, 2008.

In addition, this report includes the June 23 through July 1, 2008 water quality results for the 19 Upper Floridan (UF) monitoring wells with Westbay systems (FW-10B through FW-24C, and FW-04C). Figure 1 shows the locations of all the wells discussed in this report.

Groundwater monitoring conducted pursuant to the Monitoring Plan is reported and discussed first below. Following that discussion, groundwater monitoring for UF monitoring wells FW-10B through FW-24C, and FW-04C is reported separately. Future Floridan Aquifer Groundwater Monitoring Reports will combine the reporting for all Floridan Aquifer wells, pending United States Environmental Protection Agency (USEPA) approval of the proposed “Addendum to the Floridan Aquifer Monitoring Plan” submitted by Beazer on August 18, 2006, and the finalization of any revisions related thereto.

¹ TRC Environmental Solutions, Inc., 2004. *Revised Floridan Aquifer Monitoring Plan, Cabot Carbon/Koppers Superfund Site, Gainesville, Florida*. June 23, 2004.



Groundwater Monitoring Pursuant to the Monitoring Plan

Monitoring Procedures

In this event, the FTS field crew gauged and sampled wells FW-2 through FW-9 and MWTP-MW-1 as required in the Monitoring Plan. The Monitoring Plan specified quarterly sampling of wells FW-3 and FW-6 with semi-annual (second and fourth quarters) sampling of the remaining seven wells.

In accordance with the Monitoring Plan, the FTS field crew:

- Gauged and recorded depth to water, depth to non-aqueous phase liquid (NAPL) if present, and total well depth in the nine UF Aquifer wells (Table 1a);
- Purged the nine UF wells to be sampled, and measured and recorded field parameters while purging (Table 2); and,
- Collected groundwater samples for analysis of the parameters listed in Table 3 of the Monitoring Plan.

The FTS field crew sampled these nine monitoring wells via low-flow/low-stress methods using a bladder pump (Teflon® bladder and Teflon®-lined tubing). While purging, they measured and recorded pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity to document changes in purge water quality. They continued purging until the field parameters stabilized (as required in the Monitoring Plan) and then collected the groundwater samples. Attachment A-1 contains copies of the field forms.

The field crew submitted the groundwater samples to Columbia Analytical Services, Inc. of Jacksonville, Florida. Upon receipt of the analytical data, FTS validated the data, using the protocols of the United States Environmental Protection Agency National Functional Guidelines (USEPA 1999² and 2002³) and USEPA method specifications. FTS found the data acceptable. Attachments B-1 and B-2 include the data evaluations and analytical reports.

Groundwater Flow Patterns

At the start of the event on June 23, 2008, FTS measured and recorded groundwater levels in the nine UF monitoring wells. The procedure for measuring water levels at these wells is the technician collects two rounds of water levels on the same day using the same instrument, and the resulting data are compared as a quality control check on the field measurements. The data from both gauging rounds were in agreement with differences ranging from 0 to 0.02 feet. Using

² USEPA, 1999. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA-540/R-99-008); October 1999.

³ USEPA, 2002. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA-540-R-01-008); July 2002.



the data from the second round of gauging for the UF Wells, the resulting calculated groundwater elevations are summarized in Table 1a; and the pressure readings from the Westbay Wells are summarized in Table 1b. The groundwater elevation contour map is presented as Figure 2. As discussed below, only the UF wells without Westbay systems were used to interpret groundwater flow and generate contours.

Groundwater elevation trends in the UF Aquifer from November 2003 through June 2008 are presented in Attachment C. Historical high groundwater elevations were observed during March 2006. Low groundwater elevations were observed during this most recent event, as well as in the previous two events, due to current drought conditions and/or increased groundwater withdrawals at the Murphree Well Field. As shown on Figure 2, the June 2008 groundwater gradient in the UF Aquifer is relatively flat, with an average horizontal gradient of 0.00033 feet/feet. The measured hydraulic gradient across the Site during the June 2008 event is approximately 35 percent less than the hydraulic gradient measured in March 2006, when the potentiometric surface was approximately 10 feet higher. Similarly, the hydraulic gradient between the northern KI property boundary and monitoring well MWTP-MW-1 is approximately 40 percent of what it was during the March 2006 event. The reason for the reduction in the hydraulic gradient across the Site and to the north of the Site is unknown, but may be related to the approximately 10-foot decline in the UF Aquifer potentiometric surface since March 2006. The UF Aquifer average groundwater flow direction at the Site is to the north and northeast. The hydraulic gradient and groundwater flow direction measured in the second quarter of 2008 are consistent with those observed in the first quarter 2008 event.

Site-wide pressure readings were collected from UF wells with Westbay systems using two different transducers over a 2-week period. The corresponding water-levels were calculated by GeoTrans using the Westbay sampling port elevations calculated from the Westbay elevation correlation efforts. The results revealed that calculated water levels in wells with Westbay systems were still not in agreement with the UF wells without Westbay systems. Therefore, the UF Aquifer wells with Westbay systems were not used in conjunction with the UF wells without Westbay systems to interpret groundwater flow conditions during this sampling event.

Pressure data collected from transducers placed in on-site, non-Westbay UF wells showed variations of as much as 0.2 feet within the time required to collect samples from one Westbay well. The transducer data from the non-Westbay UF wells also revealed that water levels had simultaneously fluctuated in differing directions at opposite ends of the site (i.e. up in FW-4 and down in FW-8). Given the limitations of the Westbay system for collecting pressure data and fluctuations in UF water levels across the site during the course of the sampling, the Westbay system is not capable of providing accuracy of water level data on the order of tenths of feet.

In addition, the water levels for FW-6 and FW-2 were not used in contouring the UF Aquifer potentiometric surface, since water levels in both of these wells have historically been lower and higher, respectively, than the surrounding wells and are not consistent with current Site conditions. In addition to the relatively flat hydraulic gradient across the Site, fluctuations in the



UF Aquifer potentiometric surface during the measurement event masks relatively small differences in water levels between adjacent wells.

NAPL has never been detected in any of the UF Aquifer wells at the Site since the monitoring program began in 2003. Similar to previous monitoring results, NAPL was not detected, nor were any sheens observed in any UF Aquifer wells during the second quarter 2008 groundwater monitoring event (Attachment A-1).

Groundwater Quality Results

Pursuant to the Monitoring Plan, groundwater samples were collected from the nine Upper Floridan Aquifer monitoring wells FW-2 through FW-9 and MWTP-MW-1. Table 2 presents a summary of the field-parameter measurements, and a summary of the analytical results and method-detection limits. Figure 3 shows the spatial distribution of results from this event for select organic constituents of interest (naphthalene, benzene, 2,4-dimethylphenol, 2-methylphenol, and 3&4-methylphenol). Figure 4 shows the spatial distribution of dissolved arsenic results for this event. Attachment C contains temporal plots of concentration versus time for these constituents, and Attachment B-1 contains the Analytical Laboratory Reports.

For this sampling event, groundwater from monitoring well FW-6 contained benzene, 2-methylnaphthalene, acenaphthene, carbazole, and naphthalene concentrations greater than the respective Florida Groundwater Cleanup Target Levels (GCTLs) and/or the Florida maximum contaminant levels (MCLs) for drinking water. The following is a summary of the FW-6 second quarter 2008 results in comparison to the first quarter 2008:

- The concentration of benzene was 5.5 µg/L, which is a slight increase from the first quarter 2008 (4 µg/L).
- The concentration of 2-methylnaphthalene was 52 µg/L, which is an increase from the first quarter 2008 (2.3 J µg/L).
- The concentration of acenaphthene was 59 µg/L, which is an increase from the first quarter 2008 (4.9 J µg/L).
- The concentration of carbazole was 17 µg/L, which is an increase from the first quarter 2008 (6.7 µg/L).
- The concentration of naphthalene was 860 µg/L, which is an increase from the first quarter 2008 concentration (150 µg/L).

For the current event, monitoring wells FW-3 and FW-9 contained dissolved arsenic (As) concentrations above the Florida GCTL/MCL of 10 µg/L. The dissolved As concentration in FW-3 for the second quarter 2008 was 52 µg/L which was a slight increase from the first quarter



2008 event (49 µg/L). For FW-9, the dissolved As concentration for the second quarter 2008 was 19 µg/L, which is an increase from the fourth quarter 2007 event (11 µg/L).

Beazer has completed a comprehensive geochemical investigation of the UF Aquifer to evaluate As concentrations and geochemical controls. This investigation expanded upon the As study performed by Dr. Pichler, on behalf of the Gainesville Regional Utilities (GRU), and was submitted to the U.S. EPA on March 30, 2007. The geochemical investigation and analysis demonstrated that elevated dissolved As concentrations in UF Aquifer wells were due to the oxidation of naturally occurring As minerals during well construction. Elevated dissolved As concentrations are typically short-term and dissipates with time; however, the consistently elevated As concentrations in FW-3 is an indication of vertical leakage through the well bore annulus seal for this well. Leakage through the well bore annulus seal in this well is also supported by historically elevated pH.

Data Validation Results

Table 4 contains a summary of the field quality control sample results. Samples exhibiting positive detections for constituents found in equipment, trip, or field blanks with results below the blank action level (five times [5x] the highest concentration observed) have been qualified with a "B" for blank contamination in the data tables. No other data qualifications were made based on review of the data (Attachment B-1).

Upper Floridan Wells FW-10B through FW-24C, and FW-04C Groundwater Quality Results

Groundwater samples were collected from the 19 UF wells FW-10B through FW-24C and FW-4C during second quarter 2008. Figure 1 shows the locations of these wells, and Tables 3a and 3b present a summary of the June 23 through July 1, 2008 analytical results. Figures 5, 7, 9, and 11 present the organic constituents exceeding the U.S. EPA MCLs and the Florida GCTLs (source area wells, transect wells, boundary wells, and a summary of all monitoring wells, respectively), and Figures 6, 8, 10, and 12 present the metal constituents exceeding the U.S. EPA MCLs and the Florida GCTLs (source area wells, transect wells, boundary wells, and a summary of all monitoring wells, respectively) during the 12 sampling events (January 2006, March 2006, May 2006, June/July 2006, September 2006, December 2006, March 2007, June 2007, September 2007, December 2007, February/March 2008, and June/July 2008). The sampling depth intervals for each of the wells are numbered from top to bottom with the uppermost depth interval labeled with the ID number one (1) and the deepest interval labeled with the ID number three (3) or four (4). The field forms, associated with the sampling of these wells during the June/July 2008 event, are included as Attachment A-2. The analytical laboratory results are included as Attachment B-2.

June 23 through July 1, 2008 Groundwater Sampling Event

There are two primary water producing zones designated within the UF Aquifer in this area, the Upper Transmissive Zone (UTZ) and the Lower Transmissive Zone (LTZ). The UTZ is located in the upper part of the Ocala Limestone and ranges in thickness from approximately 40 to 100 feet. The top of the LTZ is located approximately 100 to 150 feet below the base of the UTZ and straddles the contact between the Ocala Limestone and Avon Park Formation. The LTZ ranges in thickness from approximately 20 to 100 feet. Approximately 85 percent the groundwater produced at the Murphree Well Field is from the LTZ, with only approximately 15 percent of the produced groundwater originating from the UTZ.

There are a total of 24 UTZ monitoring wells and four LTZ monitoring wells at and in the near vicinity of the Site. The UTZ monitoring wells FW-1 through FW-9, and MWTP-MW-1 were installed prior to 2005. UTZ monitoring wells FW-10B through FW-23B are multiple-screened wells, instrumented with Westbay sampling systems. These wells were completed in May 2006 and have been sampled quarterly since their installation. The installation of LTZ monitoring wells (FW-22C, FW-23C, FW-24C and FW-4C) and UTZ well (FW-24B) were completed in July 2007. The four LTZ monitoring wells were paired with four UTZ wells along the northwestern, northern and northeastern property boundary and have been termed boundary wells at this Site.

The four quarterly sampling events (September, 2007, December 2007, February/March 2008, and June/July 2008) for the recently installed LTZ monitoring wells indicate that the LTZ is not impacted beneath the Site. All organic constituent concentrations for the four LTZ monitoring wells (a total of 13 vertically discrete Westbay sampling intervals) were nondetect or below the U.S. EPA MCL drinking water standards for the June/July 2008 sampling event (Table 3a). All of the organic constituent concentrations were below Florida GCTL standards for the June/July 2008 sampling event.

Similarly, all organic constituent concentrations for the 15 UTZ monitoring wells (a total of 60 vertically discrete Westbay sampling intervals) were nondetect or below the U.S. EPA MCL drinking water standards (Table 3b).

Included in Tables 3a and 3b, inorganic constituents from 69 of the 73 sample intervals were reported either nondetect or below the U.S. EPA MCLs and the Florida GCTLs standards for dissolved Arsenic (10 µg/L). Two sampling intervals in well FW-24B, one sampling interval in FW-10B, and one sampling interval in FW-11B had dissolved As concentrations greater than the U.S. EPA MCL and the Florida GCTL standard. The elevated As concentrations in these wells are consistent with the conceptual model of dissolution of naturally occurring As minerals in the Lower Hawthorn and UF Aquifer.

In the following paragraphs, groundwater quality results are discussed in more detail for the source, transect, and boundary monitoring wells.

Source Area Monitoring Wells

The source area UTZ monitoring wells located in the former Process Area (FW-18B) and former South Lagoon (FW-19B) are below Federal MCLs and Florida GCTLs standards for all organic and inorganic constituents (Figures 5 and 6).

UTZ Monitoring wells in the former North Lagoon (FW-20B) and former Drip Track area (FW-21B) contained select organic constituents, with concentrations above Florida GCTL standards (Figure 5). None of the inorganic constituents in monitoring well FW-20B or FW-21B exceed Federal MCLs (Figure 6).

- The upper two Zones (Zones 1 and 2) for monitoring well FW-20B contain select organic constituents that exceed Florida GCTL standards, whereas all organic constituent concentrations were nondetect for Zones 3 and 4. Zone 1 contained three organic constituents: acenaphthene, benzene, and naphthalene that exceed their respective Florida GCTL standards. Zone 2 contained two organic constituents, acenaphthene and naphthalene that exceeded their respective Florida GCTL standards. The June/July 2008 sampling event results are consistent with previous sampling events and may be a result of vertical leakage through the well bore annulus seal.
- All of the Zones (Zones 1 through 4) for monitoring well FW-21B contain select organic constituents that exceed Florida GCTL standards. Zone 1 contained four organic constituents: acenaphthene, benzene, carbazole, and naphthalene that exceed their respective Florida GCTL standards. Zones 2, 3, and 4 contained one organic constituent, naphthalene that exceeded its respective Florida GCTL standards. The June/July 2008 sampling event results are consistent with previous sampling events and may be a result of vertical leakage through the well bore annulus seal.

The concentration trends for both UTZ source zone wells FW-20B and FW-21B are consistent with vertical leakage through the well bore annulus seal from overlying impacted deposits. Select organic constituent concentrations for these wells have fluctuated since the installation of these wells. Limited to nondetect groundwater impacts downgradient of these wells is an indication that impacts observed in these wells are localized and do not extend significant distances downgradient. Given the over 90-ft of hydraulic-head differential across the HG deposit lower clay unit it is not surprising that some vertical leakage is occurring in select wells.

Transect Monitoring Wells

None of the eight UTZ transect wells (FW-10B, FW-11B, FW-12B, FW-13B, FW-14B, FW-15B, FW-16B, and FW-17B) contained organic constituents that exceed Federal MCL standards; however, samples collected from two of the wells (FW-12B - Zones 1, 3, and 4; and



FW-16B – Zone 1) contained select organic constituents that exceed the Florida GCTLs (Table 3b and Figure 7).

The organic constituent impacts in transect well FW-12B are restricted to Zones 1, 3, and 4, whereas all organic constituent concentrations were nondetect for Zone 2. In Zone 1, benzene and naphthalene exceeded their respective Florida GCTL standards. Zone 3 contains five organic constituents: 2-methylnaphthalene, acenaphthene, benzene, carbazole, and naphthalene that exceed Florida GCTL standards. Zone 4 contains six organic constituents: 2-methylnaphthalene, acenaphthene, benzene, carbazole, dibenzofuran, and naphthalene that exceed Florida GCTL standards. The organic constituent concentrations observed for monitoring well FW-12B during the June/July 2008 sampling event were similar to the previous sampling event results.

Monitoring well FW-16B contained 2,4-dimethylphenol, benzene, and naphthalene concentrations in Zone 1 in excess of Florida GCTL standards during the June/July 2008 sampling event. The three deeper zones (2, 3 and 4) for this well were all nondetect. The June/July 2008 organic constituent concentrations in monitoring well FW-16B were similar to the previous sampling event results.

As discussed previously, one sampling interval (Zone 1) from transect well FW-10B and one sampling interval (Zone 2) from transect well FW-11B had dissolved As concentrations greater than the U.S. EPA MCL and the Florida GCTL standards (Figure 8). The elevated As concentrations in these wells are consistent with dissolution of naturally occurring As minerals in the UF Aquifer.

Boundary Monitoring Wells

As shown on Figures 9 and 10, all organic and inorganic constituents were below the U.S. EPA MCLs and the Florida GCTLs in LTZ property boundary wells FW-4C, FW-22C, FW-23C, and FW-24C and in UTZ property boundary wells FW-22B, FW-23B, and FW-24B during the June/July 2008 sampling event with the following exceptions:

- UTZ well FW-22B contained a naphthalene concentration in Zone 3 (24 µg/L) in excess of the Florida GCTL during the June/July 2008 sampling event.
- UTZ well FW-24B contained As that exceeded the U.S. EPA MCLs and the Florida GCTLs in Zones 1 and 2. These elevated As concentrations are consistent with the introduction of oxygenated drilling fluids, which temporarily mobilizes naturally occurring As minerals in the UF Aquifer (GeoTrans, March 2007).

Data Validation Results

Table 4 contains a summary of the field quality control sample results. Samples exhibiting positive detections for constituents found in equipment, trip, or field blanks with results below the blank action level (five times [5x] the highest concentration observed) have been qualified with a "B" for blank contamination in the data tables.

The following data quality issues were observed in the review of the analytical results (Attachment B-2):

For samples collected on June 24 and June 25, 2008 and included in SDGs J0803103 and J0803110

- Dissolved arsenic results in duplicate pair FW-10B-04/FW-99C were qualified as estimated (J) because field duplicate RPD was greater than 30%.

For samples collected on July 1, 2008 and included in SDG J0803200

- Benzene, m,p-Xylenes, and dissolved zinc results in duplicate pair FW-12B-03/FW-99H were qualified as estimated (J) because field duplicate RPD was greater than 30%.

No other data qualifications were made based on review of these data.

Summary

In summary, the second quarter 2008 groundwater sampling results are consistent with previous sampling events:

- Organic constituent concentrations for monitoring wells FW-6, FW-12B and FW-16B remained approximately the same as the previous sampling events with minor concentration fluctuations;
- The June/July 2008 sampling event results for LTZ monitoring wells indicate that the LTZ is not impacted beneath the Site; and,
- Organic constituent concentration trends for FW-20B and FW-21B are consistent with vertical leakage via the well bore annulus seal.

Beazer will continue the groundwater monitoring and evaluation of the potential impacts to the UF Aquifer, as required by the Monitoring Plan. It is anticipated that future Floridan Aquifer Groundwater Monitoring Reports will combine the reporting for all UF Aquifer wells, pending USEPA approval of the proposed "Addendum to the Floridan Aquifer Monitoring Plan" submitted by Beazer on August 18, 2006, and the finalization of any revisions related thereto.

Should you have any questions regarding these results, please feel free to contact Mr. Mitchell Brourman, Beazer Environmental Manager, at (412) 208-8805.

Sincerely,
Field & Technical Services

Angie M Gatchie

Angie Gatchie
Data Manager

Attachments

cc:	W. O'Steen, U.S. EPA	K. Helton, FDEP
	J. Fankulewski, Koppers, Inc. (CD-ROM)	J. Herbert, Jones Edmonds & Associates, Inc.
	J. Erickson, GeoTrans, Inc.	J. Mousa, ACEPD
	J. Mercer, GeoTrans, Inc. (CD-ROM)	R. Herget, GRU
	M. Brourman, Beazer	G. Council, GeoTrans, Inc. (CD-ROM)
	T. Wolfson, BCCZ (CD-ROM)	



TABLES

Table 1a
Summary of Groundwater Elevations
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well Number	Gauging Date	Top of Casing Elevation (ft msl)	Depth To Water	Groundwater Elevation (ft msl)	Measured Total Depth (ft TOC)
FW-2	6/23/08	183.83	141.31	42.52	159.83
FW-3	6/23/08	188.56	145.93	42.63	154.37
FW-4	6/23/08	173.91	131.62	42.29	159.82
FW-5	6/23/08	182.26	139.73	42.53	155.33
FW-6	6/23/08	185.23	143.05	42.18	154.70
FW-7	6/23/08	168.55	126.37	42.18	157.29
FW-8	6/23/08	186.96	144.03	42.93	152.51
FW-9	6/23/08	184.55	141.96	42.59	155.88
MWTP-MW-1	6/23/08	160.94	119.33	41.61	169.09

Notes:

ft msl - feet above mean sea level

ft toc - feet below top of casing

Table 1b
Westbay Well Sample Pressure Reading Elevation Data
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well I.D.	Zone #	Date	Monitoring Port Depth (ft btoc)	Elevation of Monitoring Port (ft msl)	Pressure Reading in Zone (psia)	Height of Water Column Above Monitoring Port (ft)	Piezometric Elevation (ft msl)	Difference in Piezometric Head from Layer Above
FW-4C	1	06/25/08	316.19	-142.04	95.69	184.21	42.17	-
	2	06/25/08	345.19	-171.04	108.19	212.72	41.68	0.48
	3	06/24/08	365.19	-191.04	116.90	232.63	41.59	0.09
FW-10B	1	06/25/08	157.73	29.41	20.77	13.14	42.55	-
	2	06/25/08	177.73	9.41	29.44	32.98	42.39	0.16
	3	06/25/08	197.73	-10.59	38.08	52.75	42.16	0.23
	4	06/25/08	217.73	-30.59	46.73	72.55	41.96	0.21
FW-11B	1	06/26/08	156.80	27.86	21.41	14.75	42.61	-
	2	06/26/08	176.80	7.86	30.08	34.59	42.45	0.16
	3	06/26/08	196.80	-12.14	38.73	54.38	42.24	0.21
	4	06/26/08	216.80	-32.14	47.40	74.22	42.08	0.16
FW-12B	1	07/01/08	156.40	27.46	21.51	15.00	42.46	-
	2	07/01/08	176.40	7.46	30.16	34.75	42.21	0.25
	3	07/01/08	196.40	-12.54	38.80	54.48	41.94	0.27
	4	07/01/08	216.40	-32.54	47.46	74.25	41.71	0.23
FW-13B	1	06/24/08	158.50	22.53	23.81	20.07	42.60	-
	2	06/24/08	178.50	2.53	32.46	39.82	42.35	0.25
	3	06/24/08	198.50	-17.47	41.12	59.59	42.12	0.23
	4	06/24/08	218.50	-37.47	49.75	79.30	41.83	0.30
FW-14B	1	06/23/08	159.64	18.73	25.40	23.90	42.63	-
	2	06/23/08	179.64	-1.27	34.04	43.67	42.40	0.23
	3	06/23/08	199.64	-21.27	42.68	63.44	42.17	0.23
	4	06/23/08	219.64	-41.27	51.33	83.23	41.96	0.21
FW-15B	1	06/25/08	158.12	20.83	24.48	21.68	42.51	-
	2	06/25/08	178.12	0.83	33.12	41.45	42.28	0.23
	3	06/25/08	198.12	-19.17	41.80	61.31	42.14	0.14
	4	06/25/08	218.12	-39.17	50.43	81.06	41.89	0.25
FW-16B	1	06/30/08	165.13	15.77	26.66	26.74	42.51	-
	2	06/27/08	185.13	-4.23	35.29	46.51	42.28	0.23
	3	06/30/08	205.13	-24.23	43.96	66.32	42.09	0.18
	4	06/27/08	225.13	-44.23	52.61	86.14	41.91	0.18

Table 1b
Westbay Well Sample Pressure Reading Elevation Data
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well I.D.	Zone #	Date	Monitoring Port Depth (ft btoc)	Elevation of Monitoring Port (ft msl)	Pressure Reading in Zone (psia)	Height of Water Column Above Monitoring Port (ft)	Piezometric Elevation (ft msl)	Difference in Piezometric Head from Layer Above
FW-17B	1	06/24/08	159.65	24.85	22.82	17.97	42.82	-
	2	06/24/08	179.65	4.85	31.46	37.74	42.59	0.23
	3	06/24/08	199.65	-15.15	40.07	57.45	42.30	0.30
	4	06/24/08	219.65	-35.15	48.72	77.24	42.09	0.21
FW-18B	1	06/27/08	157.71	28.01	21.47	14.89	42.90	-
	2	06/27/08	177.71	8.01	30.08	34.55	42.56	0.34
	3	06/26/08	197.71	-11.99	38.75	54.32	42.33	0.23
	4	06/27/08	217.71	-31.99	47.37	73.93	41.94	0.39
FW-19B	1	06/25/08	157.34	29.07	20.97	13.60	42.67	-
	2	06/25/08	177.34	9.07	29.63	33.42	42.49	0.18
	3	06/25/08	197.34	-10.93	38.27	53.19	42.26	0.23
	4	06/25/08	217.34	-30.93	46.92	72.98	42.05	0.21
FW-20B	1	07/01/08	157.72	25.64	22.33	16.92	42.56	-
	2	06/30/08	177.72	5.64	30.99	36.76	42.40	0.16
	3	06/30/08	197.72	-14.36	39.64	56.55	42.19	0.21
	4	06/30/08	217.72	-34.36	48.28	76.32	41.96	0.23
FW-21B	1	06/30/08	155.77	26.39	22.03	16.12	42.51	-
	2	06/30/08	175.77	6.39	30.69	35.90	42.29	0.23
	3	06/30/08	195.77	-13.61	39.34	55.64	42.03	0.25
	4	06/30/08	215.77	-33.61	47.98	75.37	41.76	0.27
FW-22B	1	06/27/08	156.2	25.54	22.38	16.95	42.49	-
	2	06/27/08	176.2	5.54	31.04	36.72	42.26	0.23
	3	06/27/08	196.2	-14.46	39.68	56.44	41.98	0.27
	4	06/27/08	211.2	-29.46	46.15	71.21	41.75	0.23
FW-22C	1	06/24/08	321.96	-139.98	94.95	182.80	42.82	-
	2	06/24/08	349.96	-167.98	107.02	210.46	42.48	0.33
	3	06/23/08	364.96	-182.98	113.46	225.38	42.40	0.08
FW-23B	1	06/23/08	153.09	19.72	24.90	22.58	42.30	-
	2	06/23/08	173.09	-0.28	33.56	42.36	42.08	0.23
	3	06/23/08	193.09	-20.28	42.22	62.13	41.85	0.23
	4	06/23/08	213.09	-40.28	50.88	81.90	41.62	0.23

Table 1b
Westbay Well Sample Pressure Reading Elevation Data
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well I.D.	Zone #	Date	Monitoring Port Depth (ft btoc)	Elevation of Monitoring Port (ft msl)	Pressure Reading in Zone (psia)	Height of Water Column Above Monitoring Port (ft)	Piezometric Elevation (ft msl)	Difference in Piezometric Head from Layer Above
FW-23C	1	06/25/08	312.98	-140.11	94.61	181.85	41.74	-
	2	06/25/08	344.98	-172.11	108.41	213.36	41.25	0.49
	3	06/25/08	364.98	-192.11	117.03	233.04	40.93	0.32
FW-24B	1	06/26/08	165.53	17.89	25.80	24.62	42.51	-
	2	06/26/08	185.53	-2.11	34.43	44.32	42.21	0.30
	3	06/26/08	205.53	-22.11	43.08	64.07	41.96	0.25
	4	06/16/08	225.53	-42.11	51.72	83.79	41.68	0.27
FW-24C	1	06/25/08	307.26	-123.72	87.83	166.31	42.59	-
	2	06/26/08	327.26	-143.72	96.43	185.94	42.22	0.37
	3	06/26/08	347.26	-163.72	105.07	205.60	41.88	0.34
	4	06/24/08	367.26	-183.72	113.67	225.37	41.65	0.23

Notes:

Port elevations determined from Westbay stickup measurements on 03/31/2008 and open port water level measurements and pressure readings from 03/05/2008 through 03/10/2008 .

Table 2
Summary of Field Parameter Measurements
and Analytical Data
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

			WELL ID SAMPLE DATE SAMPLE TYPE		FW-2 6/24/2008 SMP	FW-3 6/24/2008 SMP	FW-4 6/23/2008 SMP	FW-5 6/23/2008 SMP	FW-6 6/24/2008 SMP	FW-6 6/24/2008 DUP	FW-7 6/23/2008 SMP	FW-8 6/24/2008 SMP	FW-9 6/23/2008 SMP	MWTP-MW-1 6/23/2008 SMP
ANALYTE	Federal MCL	Florida GCTL ⁽²⁾	MDL	UNITS	Quarterly									
Field Parameters														
pH	NA	NA	NA	S.U.	8.36	9.59	7.04	8.72	9.21	---	7.32	7.21	7.32	7.44
Conductivity	NA	NA	NA	mS/cm	0.369	0.267	0.325	0.377	0.388	---	0.405	0.418	0.511	0.52
Temperature	NA	NA	NA	C	25.58	23.51	23.34	27.66	27.01	---	22.23	26.04	23.9	26.05
ORP	NA	NA	NA	mV	-113.9	-233.1	-45.9	-141.7	-234.9	---	37	31	-111.1	-124.7
Dissolved Oxygen	NA	NA	NA	mg/L	1.47	0.98	1.1	2.7	1.67	---	1.55	1.56	1.58	1.56
Turbidity	NA	NA	NA	NTUs	0.9	1.4	0.4	5.5	0.1	---	0.9	0.6	0.1	3.3
6020														
ARSENIC, Dissolved	10	10 ⁽³⁾	0.28	µg/L	0.71 B	52	0.74	8.1	0.5 JB	0.59 B	2.1	1.8	19	0.4 J
CHROMIUM, Dissolved	100	100 ⁽³⁾	1.4	µg/L	0.8 J	0.8 J	U	1 J	1 J	0.9 J	U	U	U	U
COPPER, Dissolved	1300	1000 ⁽⁴⁾	0.29	µg/L	0.4 J	0.9 J	0.4 J	0.4 J	1.2 J	0.6 J	U	1.7 J	0.6 J	U
ZINC, Dissolved	5000	5000 ⁽⁴⁾	1.7	µg/L	U	U	4 JB	U	U	U	U	U	6 JB	U
8260B														
BENZENE	5	1 ⁽³⁾	0.088	µg/L	U	U	U	U	5.5	5.7	U	U	U	U
ETHYLBENZENE	700	30 ⁽⁴⁾	0.12	µg/L	U	U	U	U	1.1	1	U	U	U	U
TOLUENE	10000	40 ⁽⁴⁾	0.13	µg/L	U	U	U	U	1.2	1.1	U	U	U	U
M,P-XYLENES	NA	NA	0.19	µg/L	U	U	U	U	3.9	3.6	U	U	U	U
O-XYLENE	NA	NA	0.083	µg/L	U	U	U	U	1.2	1.2	U	U	U	U
Calculated Total Xylenes ⁽¹⁾	1000	20 ⁽⁴⁾	NA	µg/L	0	0	0	0	5.1	4.8	0	0	0	0
Calculated Total BTEX ⁽¹⁾	NA	NA	NA	µg/L	0	0	0	0	12.9	12.6	0	0	0	0
8270C														
Phenols														
2,4-DIMETHYLPHENOL	NA	140	0.57	µg/L	U	1.4 J	U	U	27	23	U	U	U	U
2-METHYLPHENOL	NA	35	0.52	µg/L	U	U	U	U	7.4	6.6	U	U	U	U
3 & 4-METHYLPHENOL	NA	35/3.5 ⁽⁵⁾	0.85	µg/L	U	0.88 J	U	U	11	9.3	U	U	U	U
PENTACHLOROPHENOL	1	1 ⁽³⁾	0.46	µg/L	U	U	U	U	U	U	U	U	U	U
PHENOL	NA	10	2	µg/L	U	U	U	U	U	U	U	U	U	U
PAHs														
2-METHYLNAPHTHALENE	NA	28	0.47	µg/L	U	U	U	U	52	53	U	U	U	U
ACENAPHTHENE	NA	20	0.36	µg/L	4.2 J	U	U	U	59	62	U	U	U	U
ACENAPHTHYLENE	NA	210	0.4	µg/L	U	U	U	U	U	U	U	U	U	U
ANTHRACENE	NA	2100	0.29	µg/L	U	U	U	U	3.1 J	3.2 J	U	U	U	U
BENZO(A)ANTHRACENE	NA	0.05	0.66	µg/L	U	U	U	U	U	U	U	U	U	U
BENZO(A)PYRENE	0.2	0.2 ⁽³⁾	0.65	µg/L	U	U	U	U	U	U	U	U	U	U
BENZO(B)FLUORANTHENE	NA	0.05	0.69	µg/L	U	U	U	U	U	U	U	U	U	U
BENZO(G,H,I)PERYLENE	NA	210	0.58	µg/L	U	U	U	U	U	U	U	U	U	U
BENZO(K)FLUORANTHENE	NA	0.5	0.68	µg/L	U	U	U	U	U	U	U	U	U	U
CARBAZOLE	NA	1.8	0.62	µg/L	U	U	U	U	17	17	U	U	U	U
CHRYSENE	NA	4.8	0.6	µg/L	U	U	U	U	U	U	U	U	U	U
DIBENZO(A,H)ANTHRACENE	NA	0.005	0.66	µg/L	U	U	U	U	U	U	U	U	U	U
DIBENZOFURAN	NA	28	0.52	µg/L	U	U	U	U	28	30	U	U	U	U
FLUORANTHENE	NA	280	0.52	µg/L	U	U	U	U	9.3	10	U	U	U	U
FLUORENE	NA	280	0.4	µg/L	U	U	U	U	37	40	U	U	U	U
INDENO(1,2,3-CD)PYRENE	NA	0.05	0.63	µg/L	U	U	U	U	U	U	U	U	U	U
NAPHTHALENE	NA	14	0.46	µg/L	U	U	U	U	860	980	U	U	U	U
PHENANTHRENE	NA	210	0.29	µg/L	U	U	U	U	37	39	U	U	U	U
PYRENE	NA	210	0.48	µg/L	U	U	U	U	4.9 J	5.4 J	U	U	U	U
Calculated Total PAHs ⁽¹⁾	NA	NA	NA	µg/L	4.2	0	0	0	1107.3	1239.6	0	0	0	0

Notes:

- B - Indicates analyte was detected in the blank.
 - U - Indicates analyte was not detected above the method detection limit (MDL).
 - J - Indicates result is estimated
 - SMP - Primary field sample
 - DUP - Field duplicate sample
 - BTEX - Benzene, toluene, ethylbenzene, and xylenes
 - PAHs - Polynuclear aromatic hydrocarbons
- ⁽¹⁾ Total Xylenes, Total BTEX, and Total PAHs were calculated using a value of zero for results reported as non-detect.
- ⁽²⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.).
- ⁽³⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.
- ⁽⁴⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.
- ⁽⁵⁾ 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

Concentration exceeds Florida GCTL
Concentration exceeds Federal MCL

Table 3a
Westbay Water Quality Results for Lower Transmissive Zone Wells FW-4C through FW-24C
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-4C			WELL ID FW-22C			WELL ID FW-23C			WELL ID FW-24C					
			Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/25/2008	6/25/2008	6/24/2008	6/24/2008	6/24/2008	6/23/2008	6/25/2008	6/25/2008	6/25/2008	6/26/2008	6/26/2008	6/26/2008	6/24/2008		
METALS																	
ARSENIC (dissolved)	10	10 ⁽²⁾	0.2 U	0.28 J	0.23 J	0.79	0.37 J	0.24 J	0.2 U	0.51	0.2 U	0.43 J	1.6	3.4	0.62		
CHROMIUM (dissolved)	100	100 ⁽²⁾	1 J	1.8 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1 J		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.3 JB	0.3 U	0.3 U	0.4 J	0.4 J	0.4 JB	0.3 J	0.3 U	0.3 U	0.3 U	0.3 U	1.7 J	0.4 J		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	5 J	8 J	5.5 JB	6.8 J	5.2 J	5.6 J	4 U	17	4 U	4 U	7.7 J	59	5.9 J		
VOCs																	
BENZENE	5	1 ⁽²⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
ETHYLBENZENE	700	30 ⁽³⁾	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
TOLUENE	10000	20 ⁽³⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U		
SVOCs																	
2,4-DIMETHYLPHENOL	-	140	0.89 U	0.95 U	0.9 U	0.87 U	0.85 U	0.88 U	0.88 U	0.91 U	0.9 U	0.82 U	0.9 U	0.85 U	0.9 U		
2-METHYLNAPHTHALENE	-	28	0.84 U	0.89 U	0.85 U	0.82 U	0.79 U	0.83 U	0.83 U	0.86 U	0.85 U	0.77 U	0.85 U	0.8 U	0.85 U		
2-METHYLPHENOL	-	35	0.72 U	0.77 U	0.73 U	0.71 U	0.69 U	0.72 U	0.72 U	0.74 U	0.73 U	0.66 U	0.73 U	0.69 U	0.73 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.87 U	0.92 U	0.88 U	0.85 U	0.82 U	0.86 U	0.86 U	0.89 U	0.88 U	0.8 U	0.88 U	0.83 U	0.88 U		
ACENAPHTHENE	-	20	1.2 U	1.2 U	1.2 J	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U		
ACENAPHTHYLENE	-	210	0.66 U	0.7 U	0.66 U	0.64 U	0.62 U	0.65 U	0.65 U	0.67 U	0.66 U	0.6 U	0.66 U	0.63 U	0.66 U		
ANTHRACENE	-	2100	0.8 U	0.85 U	0.81 U	0.79 U	0.76 U	0.79 U	0.79 U	0.82 U	0.81 U	0.74 U	0.81 U	0.77 U	0.81 U		
BENZO(A)ANTHRACENE	-	0.05	0.97 U	1.1 U	0.98 U	0.95 U	0.92 U	0.96 U	0.96 U	0.99 U	0.98 U	0.89 U	0.98 U	0.93 U	0.98 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.71 U	0.75 U	0.72 U	0.7 U	0.68 U	0.7 U	0.7 U	0.73 U	0.72 U	0.65 U	0.72 U	0.68 U	0.72 U		
BENZO(B)FLUORANTHENE	-	0.05	0.98 U	1.1 U	0.99 U	0.96 U	0.93 U	0.97 U	0.97 U	1 U	0.99 U	0.9 U	0.99 U	0.94 U	0.99 U		
BENZO(G,H,I)PERYLENE	-	210	1.1 U	1.1 U	1 U	0.97 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.94 U	1.1 U	0.98 U	1.1 U		
BENZO(K)FLUORANTHENE	-	0.5	0.61 U	0.65 U	0.62 U	0.6 U	0.58 U	0.6 U	0.6 U	0.63 U	0.62 U	0.56 U	0.62 U	0.59 U	0.62 U		
CARBAZOLE	-	1.8	0.84 U	0.89 U	0.85 U	0.82 U	0.79 U	0.83 U	0.83 U	0.86 U	0.85 U	0.77 U	0.85 U	0.8 U	0.85 U		
CHRYSENE	-	4.8	0.98 U	1.1 U	0.99 U	0.96 U	0.93 U	0.97 U	0.97 U	1 U	0.99 U	0.9 U	0.99 U	0.94 U	0.99 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.7 U	0.74 U	0.71 U	0.69 U	0.66 U	0.69 U	0.69 U	0.72 U	0.71 U	0.64 U	0.71 U	0.67 U	0.71 U		
DIBENZOFURAN	-	28	0.89 U	0.95 U	0.9 U	0.87 U	0.85 U	0.88 U	0.88 U	0.91 U	0.9 U	0.82 U	0.9 U	0.85 U	0.9 U		
FLUORANTHENE	-	280	0.75 U	0.79 U	0.75 U	0.73 U	0.71 U	0.74 U	0.74 U	0.76 U	0.75 U	0.69 U	0.75 U	0.71 U	0.75 U		
FLUORENE	-	280	0.99 U	1.1 U	1 U	0.97 U	0.94 U	0.98 U	0.98 U	1.1 U	1 U	0.91 U	1 U	0.95 U	1 U		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.62 U	0.66 U	0.63 U	0.61 U	0.59 U	0.62 U	0.62 U	0.64 U	0.63 U	0.57 U	0.63 U	0.6 U	0.63 U		
NAPHTHALENE	-	14	0.89 U	0.95 U	0.9 U	0.87 U	0.85 U	0.88 U	0.88 U	0.91 U	0.9 U	0.82 U	0.9 U	0.85 U	0.9 U		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.76 U	0.8 U	0.77 U	0.74 U	0.72 U	0.75 U	0.75 U	0.78 U	0.77 U	0.7 U	0.77 U	0.73 U	0.77 U		
PHENANTHRENE	-	210	0.79 U	0.84 U	0.8 U	0.77 U	0.75 U	0.78 U	0.78 U	0.81 U	0.8 U	0.73 U	0.8 U	0.76 U	0.8 U		
PHENOL	-	10	0.48 U	0.5 U	0.48 U	0.47 U	0.45 U	0.47 U	0.47 U	0.49 U	0.48 U	0.44 U	0.48 U	0.46 U	0.48 U		
PYRENE	-	210	0.95 U	1 U	0.96 U	0.93 U	0.9 U	0.94 U	0.94 U	0.97 U	0.96 U	0.87 U	0.96 U	0.91 U	0.96 U		
BROMIDE (mg/L)																	
BROMIDE	-	-	-	0.19 J	0.2 J	0.18 J	0.2 J	0.31 J	0.33 J	0.4 U	0.2 J	0.19 J	0.56	1.1	1.5	0.36 J	

Notes

- B - Indicates analyte was detected in the field blank.
- U - Indicates analyte was not detected above the method detection limit (MDL)
- J - Indicates result is estimated
- Concentration exceeds Florida GCTL
- Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 3b
Westbay Water Quality Results for Upper Transmissive Zone Wells FW-10B through FW-24B
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-10B				WELL ID FW-11B				WELL ID FW-12B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/25/2008	6/25/2008	6/25/2008	6/25/2008	6/26/2008	6/26/2008	6/26/2008	6/26/2008	7/1/2008	7/1/2008	7/1/2008	7/1/2008		
METALS																
ARSENIC (dissolved)	10	10 ⁽²⁾	15	9.4	0.8	0.52 J	1.2	11	6.5	2.9	2.1	5.7	0.44 J	0.39 J		
CHROMIUM (dissolved)	100	100 ⁽²⁾	0.8 U	0.8 J	0.8 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 J	0.8 U		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.3 U	0.3 JB	0.3 U	0.3 U	0.3 J	0.4 J	0.7 J	0.6 J	0.4 JB	0.3 U	0.3 U	0.4 JB		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	5 J	15	5.8 J	5 J	111	361	239	326	4 U	27	4.3 J	4 U		
VOCs																
BENZENE	5	1 ⁽²⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1.3	0.99 J	2.7	2		
ETHYLBENZENE	700	30 ⁽³⁾	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.76 J	0.31 J	0.36 J	0.32 J		
TOLUENE	10000	20 ⁽³⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1.8	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	2.08 JB	0.32 U	4.1 B	3.6 JB		
SVOCs																
2,4-DIMETHYLPHENOL	-	140	0.99 U	0.86 U	0.87 U	0.85 U	0.88 U	0.98 U	0.91 U	0.9 U	36	0.98 U	1.1 U	2.8 J		
2-METHYLNAPHTHALENE	-	28	0.93 U	0.81 U	0.82 U	0.8 U	0.83 U	0.92 U	0.86 U	0.85 U	0.95 U	0.92 U	71	29		
2-METHYLPHENOL	-	35	0.8 U	0.7 U	0.71 U	0.69 U	0.72 U	0.8 U	0.74 U	0.73 U	18	10	0.86 U	0.83 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.97 U	0.84 U	0.85 U	0.83 U	0.86 U	0.96 U	0.89 U	0.88 U	1.6 J	0.96 U	1.1 U	0.99 U		
ACENAPHTHENE	-	20	1.3 U	1.1 U	1.1 U	1.1 U	2.7 J	1.3 U	1.2 U	1.3 U	1.3 U	53	49			
ACENAPHTHYLENE	-	210	0.73 U	0.64 U	0.64 U	0.63 U	0.65 U	0.72 U	0.67 U	0.66 U	0.75 U	0.72 U	0.78 U	0.75 U		
ANTHRACENE	-	2100	0.89 U	0.78 U	0.79 U	0.77 U	0.79 U	0.88 U	0.82 U	0.81 U	0.92 U	0.88 U	2.6 J	0.92 U		
BENZO(A)ANTHRACENE	-	0.05	1.1 U	0.94 U	0.95 U	0.93 U	0.96 U	1.1 U	0.99 U	0.98 U	1.2 U	1.1 U	1.2 U	1.2 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.79 U	0.69 U	0.7 U	0.68 U	0.7 U	0.78 U	0.73 U	0.72 U	0.81 U	0.78 U	0.84 U	0.81 U		
BENZO(B)FLUORANTHENE	-	0.05	1.1 U	0.95 U	0.96 U	0.94 U	0.97 U	1.1 U	1 U	0.99 U	1.2 U	1.1 U	1.2 U	1.2 U		
BENZO(G,H,I)PERYLENE	-	210	1.2 U	0.99 U	1 U	0.98 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U		
BENZO(K)FLUORANTHENE	-	0.5	0.68 U	0.59 U	0.6 U	0.59 U	0.6 U	0.67 U	0.63 U	0.62 U	0.7 U	0.67 U	0.72 U	0.7 U		
CARBAZOLE	-	1.8	0.93 U	0.81 U	0.82 U	0.8 U	0.83 U	0.92 U	0.86 U	0.85 U	0.95 U	0.92 U	3.4 J	25		
CHRYSENE	-	4.8	1.1 U	0.95 U	0.96 U	0.94 U	0.97 U	1.1 U	1 U	0.99 U	1.2 U	1.1 U	1.2 U	1.2 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.78 U	0.68 U	0.69 U	0.67 U	0.69 U	0.77 U	0.72 U	0.71 U	0.8 U	0.77 U	0.83 U	0.8 U		
DIBENZOFURAN	-	28	0.99 U	0.86 U	0.87 U	0.85 U	0.88 U	0.98 U	0.91 U	0.9 U	1.1 U	0.98 U	23	32		
FLUORANTHENE	-	280	0.83 U	0.72 U	0.73 U	0.71 U	0.74 U	0.82 U	0.76 U	0.75 U	0.85 U	0.82 U	0.88 U	0.85 U		
FLUORENE	-	280	1.1 U	0.96 U	0.97 U	0.95 U	0.98 U	1.1 U	1.1 U	1 U	1.2 U	1.1 U	26	32		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.69 U	0.6 U	0.61 U	0.6 U	0.62 U	0.68 U	0.64 U	0.63 U	0.71 U	0.68 U	0.74 U	0.71 U		
NAPHTHALENE	-	14	0.99 U	0.86 U	0.87 U	0.85 U	0.88 U	0.98 U	0.91 U	0.9 U	48	4.5 J	870	330		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.84 U	0.73 U	0.74 U	0.73 U	0.75 U	0.83 U	0.78 U	0.77 U	0.86 U	0.83 U	0.9 U	0.86 U		
PHENANTHRENE	-	210	0.88 U	0.77 U	0.77 U	0.76 U	0.78 U	0.87 U	0.81 U	0.8 U	0.9 U	0.97 J	23	0.9 U		
PHENOL	-	10	0.53 U	0.46 U	0.47 U	0.46 U	0.47 U	0.52 U	0.49 U	0.48 U	0.54 U	0.52 U	0.56 U	0.54 U		
PYRENE	-	210	1.1 U	0.92 U	0.93 U	0.91 U	0.94 U	1.1 U	0.97 U	0.96 U	1.1 U	1.1 U	1.2 U	1.1 U		
BROMIDE (mg/L)																
BROMIDE	-	-	61	39	0.66	0.46	0.58	0.56	0.24 J	0.57	1.5	1.9	0.62	2.8		

Notes

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 3b
Westbay Water Quality Results for Upper Transmissive Zone Wells FW-10B through FW-24B
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-13B				WELL ID FW-14B				WELL ID FW-15B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/24/2008	6/24/2008	6/24/2008	6/24/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/25/2008	6/25/2008	6/25/2008	6/25/2008		
METALS																
ARSENIC (dissolved)	10	10 ⁽²⁾	0.2 U	0.26 J	0.2 U	0.2 U	0.5	0.33 J	0.25 J	0.3 J	5.3	2.4	2.8	5.2		
CHROMIUM (dissolved)	100	100 ⁽²⁾	0.8 U	0.8 U	0.8 U	0.8 U	1.3 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 J	0.8 U	1 J		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.4 J	0.4 J	0.3 U	0.3 U	0.3 U	0.4 JB	0.3 JB	0.3 U	0.3 JB	0.4 JB	0.3 J	0.3 JB		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	6.5 J	8.7 J	4 U	4 U	16	4.3 J	4 U	4 U	13	6 J	5.2 J	9 J		
VOCs																
BENZENE	5	1 ⁽²⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
ETHYLBENZENE	700	30 ⁽³⁾	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
TOLUENE	10000	20 ⁽³⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U		
SVOCs																
2,4-DIMETHYLPHENOL	-	140	0.86 U	0.92 U	0.84 U	0.83 U	0.95 U	0.85 U	0.92 U	0.92 U	0.9 U	0.99 U	0.84 U	0.84 U		
2-METHYLNAPHTHALENE	-	28	0.81 U	0.87 U	0.78 U	0.78 U	0.89 U	0.79 U	0.87 U	0.87 U	0.85 U	0.93 U	0.78 U	0.78 U		
2-METHYLPHENOL	-	35	0.7 U	0.75 U	0.68 U	0.67 U	0.77 U	0.69 U	0.75 U	0.75 U	0.73 U	0.8 U	0.68 U	0.68 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.84 U	0.9 U	0.82 U	0.81 U	0.92 U	0.82 U	0.9 U	0.9 U	0.88 U	0.97 U	0.82 U	0.82 U		
ACENAPHTHENE	-	20	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	1.1 U	1.1 U		
ACENAPHTHYLENE	-	210	0.64 U	0.68 U	0.62 U	0.61 U	0.7 U	0.62 U	0.68 U	0.68 U	0.66 U	0.73 U	0.62 U	0.62 U		
ANTHRACENE	-	2100	0.78 U	0.83 U	0.75 U	0.74 U	0.85 U	0.76 U	0.83 U	0.83 U	0.81 U	0.89 U	0.75 U	0.75 U		
BENZO(A)ANTHRACENE	-	0.05	0.94 U	1 U	0.91 U	0.9 U	1.1 U	0.92 U	1 U	1 U	0.98 U	1.1 U	0.91 U	0.91 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.69 U	0.74 U	0.67 U	0.66 U	0.75 U	0.68 U	0.74 U	0.74 U	0.72 U	0.79 U	0.67 U	0.67 U		
BENZO(B)FLUORANTHENE	-	0.05	0.95 U	1.1 U	0.92 U	0.91 U	1.1 U	0.93 U	1.1 U	1.1 U	0.99 U	1.1 U	0.92 U	0.92 U		
BENZO(G,H,I)PERYLENE	-	210	0.99 U	1.1 U	0.96 U	0.95 U	1.1 U	0.97 U	1.1 U	1.1 U	1.1 U	1.2 U	0.96 U	0.96 U		
BENZO(K)FLUORANTHENE	-	0.5	0.59 U	0.63 U	0.57 U	0.57 U	0.65 U	0.58 U	0.63 U	0.63 U	0.62 U	0.68 U	0.57 U	0.57 U		
CARBAZOLE	-	1.8	0.81 U	0.87 U	0.78 U	0.78 U	0.89 U	0.79 U	0.87 U	0.87 U	0.85 U	0.93 U	0.78 U	0.78 U		
CHRYSENE	-	4.8	0.95 U	1.1 U	0.92 U	0.91 U	1.1 U	0.93 U	1.1 U	1.1 U	0.99 U	1.1 U	0.92 U	0.92 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.68 U	0.73 U	0.66 U	0.65 U	0.74 U	0.66 U	0.73 U	0.73 U	0.71 U	0.78 U	0.66 U	0.66 U		
DIBENZOFURAN	-	28	0.86 U	0.92 U	0.84 U	0.83 U	0.95 U	0.85 U	0.92 U	0.92 U	0.9 U	0.99 U	0.84 U	0.84 U		
FLUORANTHENE	-	280	0.72 U	0.77 U	0.7 U	0.69 U	0.79 U	0.71 U	0.77 U	0.77 U	0.75 U	0.83 U	0.7 U	0.7 U		
FLUORENE	-	280	0.96 U	1.1 U	0.93 U	0.92 U	1.1 U	0.94 U	1.1 U	1.1 U	1 U	1.1 U	0.93 U	0.93 U		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.6 U	0.64 U	0.58 U	0.58 U	0.66 U	0.59 U	0.64 U	0.64 U	0.63 U	0.69 U	0.58 U	0.58 U		
NAPHTHALENE	-	14	0.86 U	0.92 U	0.84 U	0.83 U	0.95 U	0.85 U	0.92 U	0.92 U	0.9 U	0.99 U	4.3 J	0.84 U		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.73 U	0.78 U	0.71 U	0.7 U	0.8 U	0.72 U	0.78 U	0.78 U	0.77 U	0.84 U	0.71 U	0.71 U		
PHENANTHRENE	-	210	0.77 U	0.82 U	0.74 U	0.73 U	0.84 U	0.75 U	0.82 U	0.82 U	0.8 U	0.88 U	0.74 U	0.74 U		
PHENOL	-	10	0.46 U	0.49 U	0.45 U	0.44 U	0.5 U	0.45 U	0.49 U	0.49 U	0.48 U	0.53 U	0.45 U	0.45 U		
PYRENE	-	210	0.92 U	0.98 U	0.89 U	0.88 U	1 U	0.9 U	0.98 U	0.98 U	0.96 U	1.1 U	0.89 U	0.89 U		
BROMIDE (mg/L)																
BROMIDE	-	-	0.18 J	0.18 J	0.18 J	0.4 U	0.8	0.22 J	0.48	0.44	0.27 J	0.77	0.18 J	0.22 J		

Notes

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 3b
Westbay Water Quality Results for Upper Transmissive Zone Wells FW-10B through FW-24B
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-16B				WELL ID FW-17B				WELL ID FW-18B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/30/2008	6/27/2008	6/30/2008	6/27/2008	6/24/2008	6/24/2008	6/24/2008	6/24/2008	6/27/2008	6/27/2008	6/26/2008	6/27/2008		
METALS																
ARSENIC (dissolved)	10	10 ⁽²⁾	1.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.42 J	0.2 U	0.33 J	0.2 U		
CHROMIUM (dissolved)	100	100 ⁽²⁾	1 J	0.8 U	1 J	0.8 U	0.8 U	0.8 U	0.8 U	1.3 J	0.8 U	0.9 J	0.8 JB	0.8 U		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.3 J	0.3 J	0.3 U	0.5 J	0.4 J	0.3 U	0.5 J	0.4 J	0.5 J	0.3 U	0.3 U	0.3 U		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	8.1 J	4.7 J	5.5 J	8.5 J	8 JB	4 U	28 B	9 JB	5.1 J	4 U	4 U	4 U		
VOCs																
BENZENE	5	1 ⁽²⁾	2.7	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
ETHYLBENZENE	700	30 ⁽³⁾	1.3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
TOLUENE	10000	20 ⁽³⁾	2.8	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	2.9 J	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U		
SVOCs																
2,4-DIMETHYLPHENOL	-	140	170	0.88 U	0.92 U	0.82 U	0.85 U	0.99 U	0.88 U	0.84 U	0.98 U	0.87 U	0.81 U	0.98 U		
2-METHYLNAPHTHALENE	-	28	0.82 U	0.83 U	0.87 U	0.77 U	0.79 U	0.93 U	0.83 U	0.78 U	0.92 U	0.82 U	0.76 U	0.92 U		
2-METHYLPHENOL	-	35	8.6	0.72 U	0.75 U	0.66 U	0.69 U	0.8 U	0.72 U	0.68 U	0.8 U	0.71 U	0.66 U	0.8 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.85 U	0.86 U	0.9 U	0.8 U	0.82 U	0.97 U	0.86 U	0.82 U	0.96 U	0.85 U	0.79 U	0.96 U		
ACENAPHTHENE	-	20	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.3 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.3 U		
ACENAPHTHYLENE	-	210	0.64 U	0.65 U	0.68 U	0.6 U	0.62 U	0.73 U	0.65 U	0.62 U	0.72 U	0.64 U	0.6 U	0.72 U		
ANTHRACENE	-	2100	0.79 U	0.79 U	0.83 U	0.74 U	0.76 U	0.89 U	0.79 U	0.75 U	0.88 U	0.79 U	0.73 U	0.88 U		
BENZO(A)ANTHRACENE	-	0.05	0.95 U	0.96 U	1 U	0.89 U	0.92 U	1.1 U	0.96 U	0.91 U	1.1 U	0.95 U	0.88 U	1.1 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.7 U	0.7 U	0.74 U	0.65 U	0.68 U	0.79 U	0.7 U	0.67 U	0.78 U	0.7 U	0.65 U	0.78 U		
BENZO(B)FLUORANTHENE	-	0.05	0.96 U	0.97 U	1.1 U	0.9 U	0.93 U	1.1 U	0.97 U	0.92 U	1.1 U	0.96 U	0.89 U	1.1 U		
BENZO(G,H,I)PERYLENE	-	210	1 U	1.1 U	1.1 U	0.94 U	0.97 U	1.2 U	1.1 U	0.96 U	1.2 U	1 U	0.93 U	1.2 U		
BENZO(K)FLUORANTHENE	-	0.5	0.6 U	0.6 U	0.63 U	0.56 U	0.58 U	0.68 U	0.6 U	0.57 U	0.67 U	0.6 U	0.56 U	0.67 U		
CARBAZOLE	-	1.8	0.82 U	0.83 U	0.87 U	0.77 U	0.79 U	0.93 U	0.83 U	0.78 U	0.92 U	0.82 U	0.76 U	0.92 U		
CHRYSENE	-	4.8	0.96 U	0.97 U	1.1 U	0.9 U	0.93 U	1.1 U	0.97 U	0.92 U	1.1 U	0.96 U	0.89 U	1.1 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.69 U	0.69 U	0.73 U	0.64 U	0.66 U	0.78 U	0.69 U	0.66 U	0.77 U	0.69 U	0.64 U	0.77 U		
DIBENZOFURAN	-	28	0.87 U	0.88 U	0.92 U	0.82 U	0.85 U	0.99 U	0.88 U	0.84 U	0.98 U	0.87 U	0.81 U	0.98 U		
FLUORANTHENE	-	280	0.73 U	0.74 U	0.77 U	0.69 U	0.71 U	0.83 U	0.74 U	0.7 U	0.82 U	0.73 U	0.68 U	0.82 U		
FLUORENE	-	280	0.97 U	0.98 U	1.1 U	0.91 U	0.94 U	1.1 U	0.98 U	0.93 U	1.1 U	0.97 U	0.9 U	1.1 U		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.61 U	0.62 U	0.64 U	0.57 U	0.59 U	0.69 U	0.62 U	0.58 U	0.68 U	0.61 U	0.57 U	0.68 U		
NAPHTHALENE	-	14	31	0.88 U	0.92 U	0.82 U	0.85 U	0.99 U	0.88 U	0.84 U	0.98 U	0.87 U	0.81 U	0.98 U		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.74 U	0.75 U	0.78 U	0.7 U	0.72 U	0.84 U	0.75 U	0.71 U	0.83 U	0.74 U	0.69 U	0.83 U		
PHENANTHRENE	-	210	1.5 J	0.78 U	0.82 U	0.73 U	0.75 U	0.88 U	0.78 U	0.74 U	0.87 U	0.77 U	0.72 U	0.87 U		
PHENOL	-	10	0.47 U	0.47 U	0.49 U	0.44 U	0.45 U	0.53 U	0.47 U	0.45 U	0.52 U	0.47 U	0.43 U	0.52 U		
PYRENE	-	210	0.93 U	0.94 U	0.98 U	0.87 U	0.9 U	1.1 U	0.94 U	0.89 U	1.1 U	0.93 U	0.86 U	1.1 U		
BROMIDE (mg/L)																
BROMIDE	-	-	13	0.33 J	0.78	0.72	0.19 J	0.23 J	0.31 J	0.57	0.4 U	0.4 U	0.4 U	0.21 J		

Notes

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 3b
Westbay Water Quality Results for Upper Transmissive Zone Wells FW-10B through FW-24B
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-19B				WELL ID FW-20B				WELL ID FW-21B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/25/2008	6/25/2008	6/25/2008	6/25/2008	7/1/2008	6/30/2008	6/30/2008	6/30/2008	6/30/2008	6/30/2008	6/30/2008	6/30/2008		
METALS																
ARSENIC (dissolved)	10	10 ⁽²⁾	3.9	0.2 U	0.35 J	0.2 U	0.2 U	0.35 JB	0.2 U	0.22 JB	0.2 U	1.4	0.81 B	0.41 JB		
CHROMIUM (dissolved)	100	100 ⁽²⁾	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.9 J	0.8 U	1.2 J	0.9 J	1.4 J		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.4 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 J	0.3 J	0.3 U	0.3 U	0.5 J	0.3 J		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	93	4.6 J	4 U	4 U	4 U	4 U	56	4 U	24	4 U	4 U	4 U		
VOCs																
BENZENE	5	1 ⁽²⁾	0.52 U	0.52 U	0.52 U	0.52 U	1.9	0.52 U	0.52 U	0.52 U	2.1	0.52 U	0.52 U	0.52 U		
ETHYLBENZENE	700	30 ⁽³⁾	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.62 J	0.1 U	0.1 U	0.1 U		
TOLUENE	10000	20 ⁽³⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	0.32 U	0.32 U	0.32 U	0.32 U	2.19 J	0.32 U	0.32 U	0.32 U	3.2	0.68 J	0.74 J	1.71 J		
SVOCs																
2,4-DIMETHYLPHENOL	-	140	0.97 U	0.88 U	0.9 U	0.81 U	0.95 U	0.83 U	0.93 U	1 U	0.95 U	0.98 U	0.88 U	0.88 U		
2-METHYLNAPHTHALENE	-	28	0.91 U	0.83 U	0.85 U	0.76 U	20	1.7 J	0.88 U	0.94 U	19	0.92 U	0.83 U	0.83 U		
2-METHYLPHENOL	-	35	0.79 U	0.72 U	0.73 U	0.66 U	0.77 U	0.67 U	0.76 U	0.82 U	0.77 U	0.8 U	0.72 U	0.72 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.94 U	0.86 U	0.88 U	0.79 U	0.92 U	0.81 U	0.91 U	0.98 U	0.92 U	0.96 U	0.86 U	0.86 U		
ACENAPHTHENE	-	20	1.8 J	1.1 U	1.2 U	1.1 U	42	35	1.2 U	1.3 U	27	8.4	4.8 J	5.1 J		
ACENAPHTHYLENE	-	210	0.71 U	0.65 U	0.66 U	0.6 U	0.7 U	0.61 U	0.69 U	0.74 U	0.7 U	0.72 U	0.65 U	0.65 U		
ANTHRACENE	-	2100	0.87 U	0.79 U	0.81 U	0.73 U	2.8 J	1.5 J	0.84 U	0.9 U	0.85 U	0.88 U	0.79 U	0.79 U		
BENZO(A)ANTHRACENE	-	0.05	1.1 U	0.96 U	0.98 U	0.88 U	1.1 U	0.9 U	1.1 U	1.1 U	1.1 U	1.1 U	0.96 U	0.96 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.77 U	0.7 U	0.72 U	0.65 U	0.75 U	0.66 U	0.75 U	0.8 U	0.75 U	0.78 U	0.7 U	0.70 U		
BENZO(B)FLUORANTHENE	-	0.05	1.1 U	0.97 U	0.99 U	0.89 U	1.1 U	0.91 U	1.1 U	1.2 U	1.1 U	1.1 U	0.97 U	0.97 U		
BENZO(G,H,I)PERYLENE	-	210	1.2 U	1.1 U	1.1 U	0.93 U	1.1 U	0.95 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U		
BENZO(K)FLUORANTHENE	-	0.5	0.66 U	0.6 U	0.62 U	0.56 U	0.65 U	0.57 U	0.64 U	0.69 U	0.65 U	0.67 U	0.6 U	0.6 U		
CARBAZOLE	-	1.8	0.91 U	0.83 U	0.85 U	0.76 U	0.89 U	0.78 U	0.88 U	0.94 U	12	0.92 U	0.83 U	0.83 U		
CHRYSENE	-	4.8	1.1 U	0.97 U	0.99 U	0.89 U	1.1 U	0.91 U	1.1 U	1.2 U	1.1 U	1.1 U	0.97 U	0.97 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.76 U	0.69 U	0.71 U	0.64 U	0.74 U	0.65 U	0.73 U	0.79 U	0.74 U	0.77 U	0.69 U	0.69 U		
DIBENZOFURAN	-	28	0.97 U	0.88 U	0.9 U	0.81 U	21	16	0.93 U	1 U	13	2.6 J	1.8 J	2 J		
FLUORANTHENE	-	280	0.81 U	0.74 U	0.75 U	0.68 U	6.3	1.4 J	0.78 U	0.84 U	0.79 U	0.82 U	0.74 U	0.74 U		
FLUORENE	-	280	1.1 U	0.98 U	1 U	0.9 U	26	20	1.1 U	1.2 U	14	2.9 J	2.1 J	2.2 J		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.68 U	0.62 U	0.63 U	0.57 U	0.66 U	0.58 U	0.65 U	0.7 U	0.66 U	0.68 U	0.62 U	0.62 U		
NAPHTHALENE	-	14	0.97 U	0.88 U	0.9 U	0.81 U	260	100	0.93 U	1 U	260	33	28	27		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.82 U	0.75 U	0.77 U	0.69 U	0.8 U	0.7 U	0.79 U	0.85 U	0.8 U	0.83 U	0.75 U	0.75 U		
PHENANTHRENE	-	210	0.86 U	0.78 U	0.8 U	0.72 U	24	7.5	0.83 U	0.89 U	6.8	0.87 U	1.9 J	1.9 J		
PHENOL	-	10	0.52 U	0.47 U	0.48 U	0.43 J	0.5 U	0.44 U	0.5 U	0.54 U	0.5 U	0.52 U	0.47 U	0.47 U		
PYRENE	-	210	1.1 U	0.94 U	0.96 U	0.86 U	3.5 J	0.88 U	0.99 U	1.1 U	1 U	1.1 U	0.94 U	0.94 U		
BROMIDE (mg/L)																
BROMIDE	-	-	0.37 J	0.25 J	0.64	0.4 U	0.2 J	0.58	2.3	0.96	0.19 J	0.4 U	0.49	0.26 J		

Notes

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 3b
Westbay Water Quality Results for Upper Transmissive Zone Wells FW-10B through FW-24B
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)	WELL ID FW-22B				WELL ID FW-23B				WELL ID FW-24B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4		
Sample Date			6/27/2008	6/27/2008	6/27/2008	6/27/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/26/2008	6/26/2008	6/26/2008	6/26/2008		
METALS																
ARSENIC (dissolved)	10	10 ⁽²⁾	0.2 U	0.2 U	0.5 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	107	60	4.8	2.1		
CHROMIUM (dissolved)	100	100 ⁽²⁾	0.8 U	1.2 J	1.1 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U		
COPPER (dissolved)	1300	1000 ⁽³⁾	0.3 U	0.3 U	0.4 J	0.3 U	0.3 U	0.3 JB	0.3 U	0.4 JB	0.3 J	0.3 U	0.5 J	0.4 J		
ZINC (dissolved)	5000 ⁽⁴⁾	5000 ⁽³⁾	4 U	4 U	4 U	4 U	4 U	8.3 J	4.6 J	7.7 J	148	4 U	4 U	5 J		
VOCs																
BENZENE	5	1 ⁽²⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
ETHYLBENZENE	700	30 ⁽³⁾	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
TOLUENE	10000	20 ⁽³⁾	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U		
XYLENE (total)	1000	40 ⁽³⁾	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U		
SVOCs																
2,4-DIMETHYLPHENOL	-	140	0.95 U	0.88 U	0.98 U	0.84 U	0.88 U	0.91 U	0.85 U	0.85 U	0.88 U	0.95 U	0.84 U	0.84 U		
2-METHYLNAPHTHALENE	-	28	0.89 U	0.83 U	0.92 U	0.78 U	0.83 U	0.86 U	0.8 U	0.79 U	0.83 U	0.89 U	0.78 U	0.78 U		
2-METHYLPHENOL	-	35	0.77 U	0.72 U	0.8 U	0.68 U	0.72 U	0.74 U	0.69 U	0.69 U	0.72 U	0.77 U	0.68 U	0.68 U		
4-METHYLPHENOL	-	35/3.5 ⁽⁵⁾	0.92 U	0.86 U	0.96 U	0.82 U	0.86 U	0.89 U	0.83 U	0.82 U	0.86 U	0.92 U	0.82 U	0.82 U		
ACENAPHTHENE	-	20	6	14	18	15	1.1 U	1.2 U	1.1 U	1.1 U	1.7 J	3 J	1.1 U	1.5 J		
ACENAPHTHYLENE	-	210	0.7 U	0.65 U	0.72 U	0.62 U	0.65 U	0.67 U	0.63 U	0.62 U	0.65 U	0.7 U	0.62 U	0.62 U		
ANTHRACENE	-	2100	0.85 U	0.79 U	0.88 U	0.75 U	0.79 U	0.82 U	0.77 U	0.76 U	0.79 U	0.85 U	0.75 U	0.75 U		
BENZO(A)ANTHRACENE	-	0.05	1.1 U	0.96 U	1.1 U	0.91 U	0.96 U	0.99 U	0.93 U	0.92 U	0.96 U	1.1 U	0.91 U	0.91 U		
BENZO(A)PYRENE	0.2	0.2 ⁽²⁾	0.75 U	0.7 U	0.78 U	0.67 U	0.7 U	0.73 U	0.68 U	0.68 U	0.7 U	0.75 U	0.67 U	0.67 U		
BENZO(B)FLUORANTHENE	-	0.05	1.1 U	0.97 U	1.1 U	0.92 U	0.97 U	1 U	0.94 U	0.93 U	0.97 U	1.1 U	0.92 U	0.92 U		
BENZO(G,H,I)PERYLENE	-	210	1.1 U	1.1 U	1.2 U	0.96 U	1.1 U	1.1 U	0.98 U	0.97 U	1.1 U	1.1 U	0.96 U	0.96 U		
BENZO(K)FLUORANTHENE	-	0.5	0.65 U	0.6 U	0.67 U	0.57 U	0.6 U	0.63 U	0.59 U	0.58 U	0.6 U	0.65 U	0.57 U	0.57 U		
CARBAZOLE	-	1.8	0.89 U	0.83 U	0.92 U	0.78 U	0.83 U	0.86 U	0.8 U	0.79 U	0.83 U	0.89 U	0.78 U	0.78 U		
CHRYSENE	-	4.8	1.1 U	0.97 U	1.1 U	0.92 U	0.97 U	1 U	0.94 U	0.93 U	0.97 U	1.1 U	0.92 U	0.92 U		
DIBENZO(A,H)ANTHRACENE	-	0.005	0.74 U	0.69 U	0.77 U	0.66 U	0.69 U	0.72 U	0.67 U	0.66 U	0.69 U	0.74 U	0.66 U	0.66 U		
DIBENZOFURAN	-	28	0.95 U	0.88 U	1.2 J	0.84 U	0.88 U	0.91 U	0.85 U	0.85 U	0.88 U	0.95 U	0.84 U	0.84 U		
FLUORANTHENE	-	280	0.79 U	0.74 U	0.82 U	0.7 U	0.74 U	0.76 U	0.71 U	0.71 U	0.74 U	0.79 U	0.7 U	0.7 U		
FLUORENE	-	280	1.1 U	0.98 U	2 J	0.93 U	0.98 U	1.1 U	0.95 U	0.94 U	0.98 U	1.1 U	0.93 U	0.93 U		
INDENO(1,2,3-CD)PYRENE	-	0.05	0.66 U	0.62 U	0.68 U	0.58 U	0.62 U	0.64 U	0.6 U	0.59 U	0.62 U	0.66 U	0.58 U	0.58 U		
NAPHTHALENE	-	14	0.95 U	13	24	0.84 U	0.88 U	0.91 U	0.85 U	0.85 U	0.88 U	0.95 U	0.84 U	0.84 U		
PENTACHLOROPHENOL	1	1 ⁽²⁾	0.8 U	0.75 U	0.83 U	0.71 U	0.75 U	0.78 U	0.73 U	0.72 U	0.75 U	0.8 U	0.71 U	0.71 U		
PHENANTHRENE	-	210	0.84 U	0.78 U	0.87 U	0.74 U	0.78 U	0.81 U	0.76 U	0.75 U	0.78 U	0.84 U	0.74 U	0.74 U		
PHENOL	-	10	0.5 U	0.47 U	0.52 U	0.45 U	0.47 U	0.49 U	0.46 U	0.45 U	0.47 U	0.5 U	0.45 U	0.45 U		
PYRENE	-	210	1 U	0.94 U	1.1 U	0.89 U	0.94 U	0.97 U	0.91 U	0.9 U	0.94 U	1 U	0.89 U	0.89 U		
BROMIDE (mg/L)																
BROMIDE	-	-	0.22 J	0.24 J	0.22 J	0.4 U	0.22 J	0.4 U	0.4 U	0.4 U	19	7.4	4.5	4.9		

Notes

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

⁽¹⁾ Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.)

⁽²⁾ Florida GCTL is the Primary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽³⁾ Florida GCTL is the Secondary Drinking Water Standard as set forth in 62-550 F.A.C.

⁽⁴⁾ Federal MCL is the Secondary Drinking Water Standard

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

Table 4
Field Quality Control Sample Summary
2008 Second Quarter Floridan Aquifer Groundwater Monitoring Event
Cabot Carbon/Koppers Superfund Site
Gainesville Florida

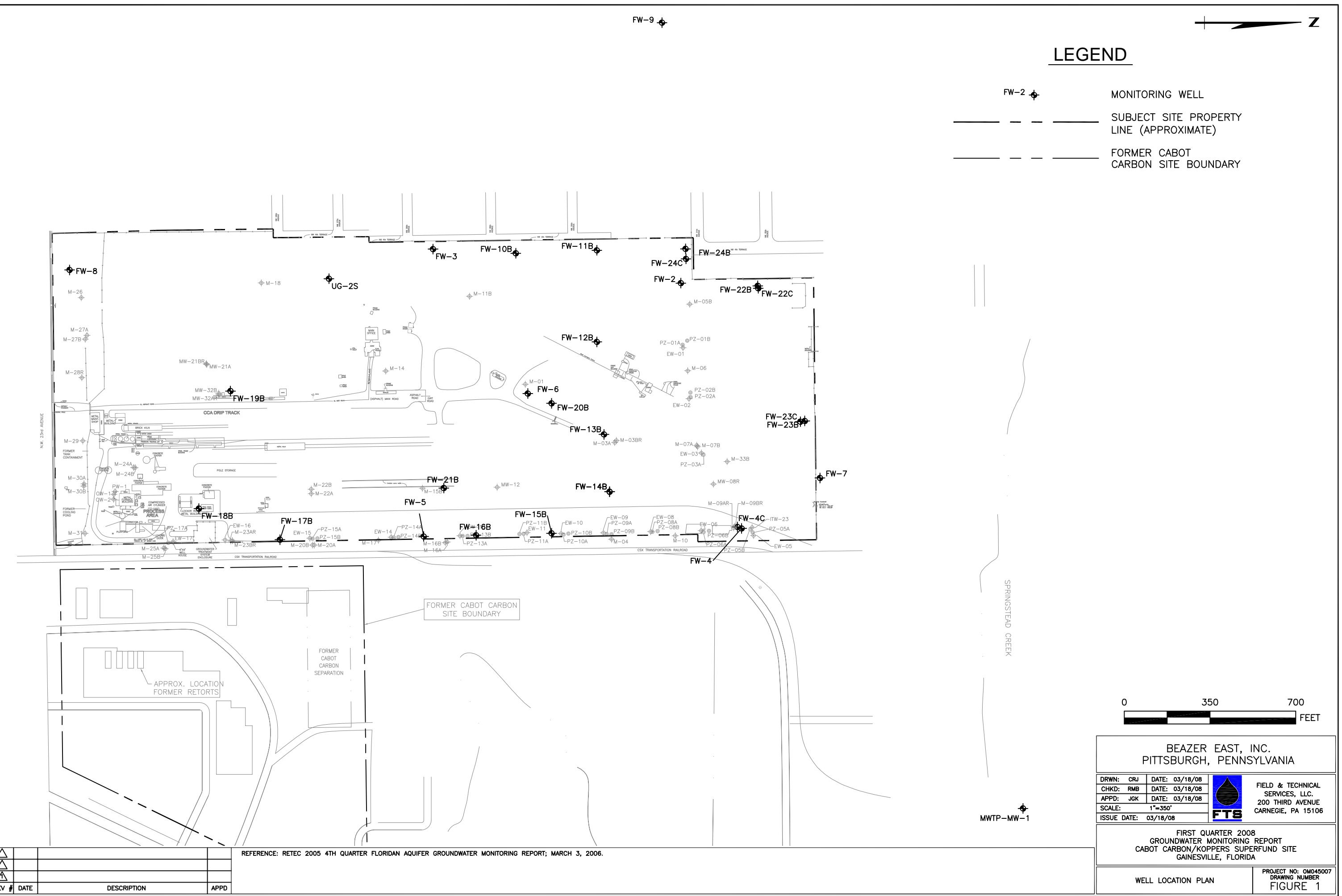
SDG	Collection Date	Field QC Sample ID	Parameters Detected	Concentration ($\mu\text{g/l}$)	Blank Action Level ($\mu\text{g/l}$)	Associated Samples ⁽¹⁾
J0803078	6/23/2008	Field Blank	Dissolved Copper	0.5	2.5	FW-14B-01, FW-14B-03, FW-14B-04, FW-14B-02, FW-23B-04, FW-23B-03, FW-99A, FW-23B-01, FW-23B-02, FW-22C-03, FW-22C-02, FW-22C-01, FW-13B-02, FW-99B, FW-13B-04, FW-13B-01
J0803103	6/24/2008	Filter Blank	Dissolved Zinc	10	50	FW-13B-03, FW-4C-03, FW-4C-01, FW-4C-02, FW-10B-02, FW-10B-03, FW-10B-04, FW-10B-01, FW-15B-02, FW-15B-04, FW-15B-01, FW-17B-03, FW-17B-02, FW-17B-04, FW-17B-01
	6/25/2008	Field Blank	2-Methylphenol	0.86	4.3	
			Dissolved Copper	0.5	2.5	
J0803126	6/24/2008	Field Blank	m,p-Xylenes	0.31	1.55	FW-24C-04, FW-11B-03, FW-11B-02, FW-11B-04, FW-11B-01, FW-99E, FW-18B-03, FW-18B-04, FW-18B-01, FW-18B-02, FW-22B-01
		Equipment Blank	Ethylbenzene	0.98	4.9	
			Toluene	0.73	3.65	
			m,p-Xylenes	1.5	7.5	
	6/26/2008	Field Blank	o-Xylene	1.7	8.5	
			Ethylbenzene	0.98	4.9	
			Toluene	0.69	3.45	
			m,p-Xylenes	1.4	7	
	6/27/2008	Field Blank	o-Xylene	1.6	8	
			Naphthalene	1.9	9.5	
			Equipment Blank	Dissolved Chromium	1	
					5	
J0803199	6/30/2008	Equipment Blank	Dissolved Arsenic	0.21	1.05	FW-22B-02, FW-22B-04, FW-22B-03, FW-99F, FW-16B-02, FW-16B-04, FW-16B-03, FW-99G, FW-16B-01, FW-21B-02, FW-21B-03, FW-21B-04, FW-21B-01, FW-20B-03, FW-20B-04, FW-20B-02, FW-20B-01
J0803200	7/1/2008	Field Blank	m,p-Xylenes	1	5	FW-12B-02, FW-12B-01, FW-12B-04, FW-12B-03, FW-99H
			o-Xylene	0.7	3.5	
		Filter Blank	Dissolved Copper	4.1	20.5	
		Equipment Blank	Dissolved Copper	3	15	
J0803104	6/23/2008	Equipment Blank	Dissolved Zinc	14	70	FW-4, FW-9, MWTP-MW-1, FW-7, FW-5, FW-3, FW-2, FW-8, FW-6, FW-99Z
		Field Blank	Dissolved Zinc	5	25	
	6/24/2008	Equipment Blank	Dissolved Zinc	5	25	
		Field Blank	Dissolved Arsenic	0.22	1.1	
		Filter Blank	Dissolved Arsenic	0.29	1.45	

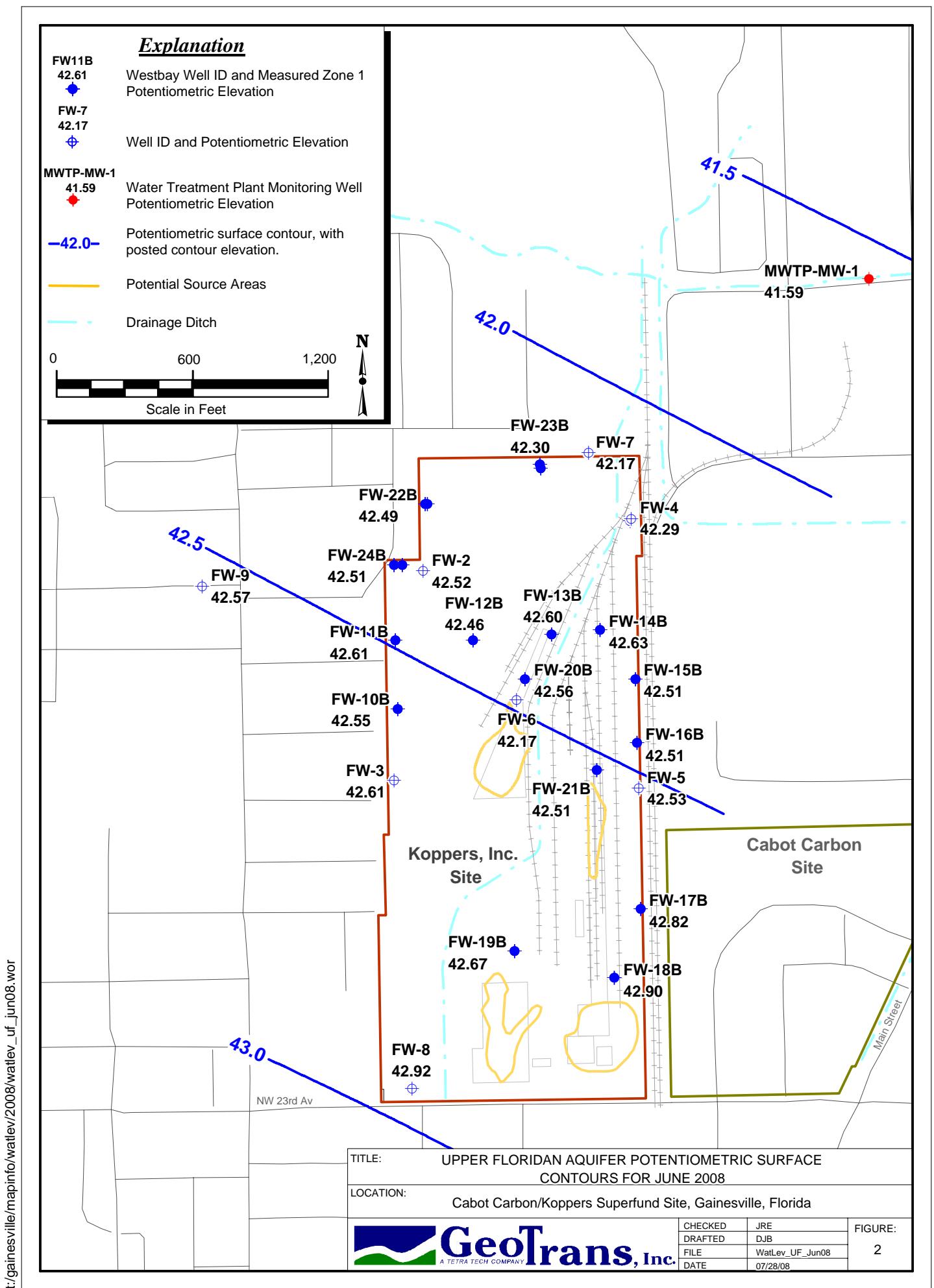
Notes:

(1) Associated Samples includes all samples analyzed in the SDG.

FIGURES

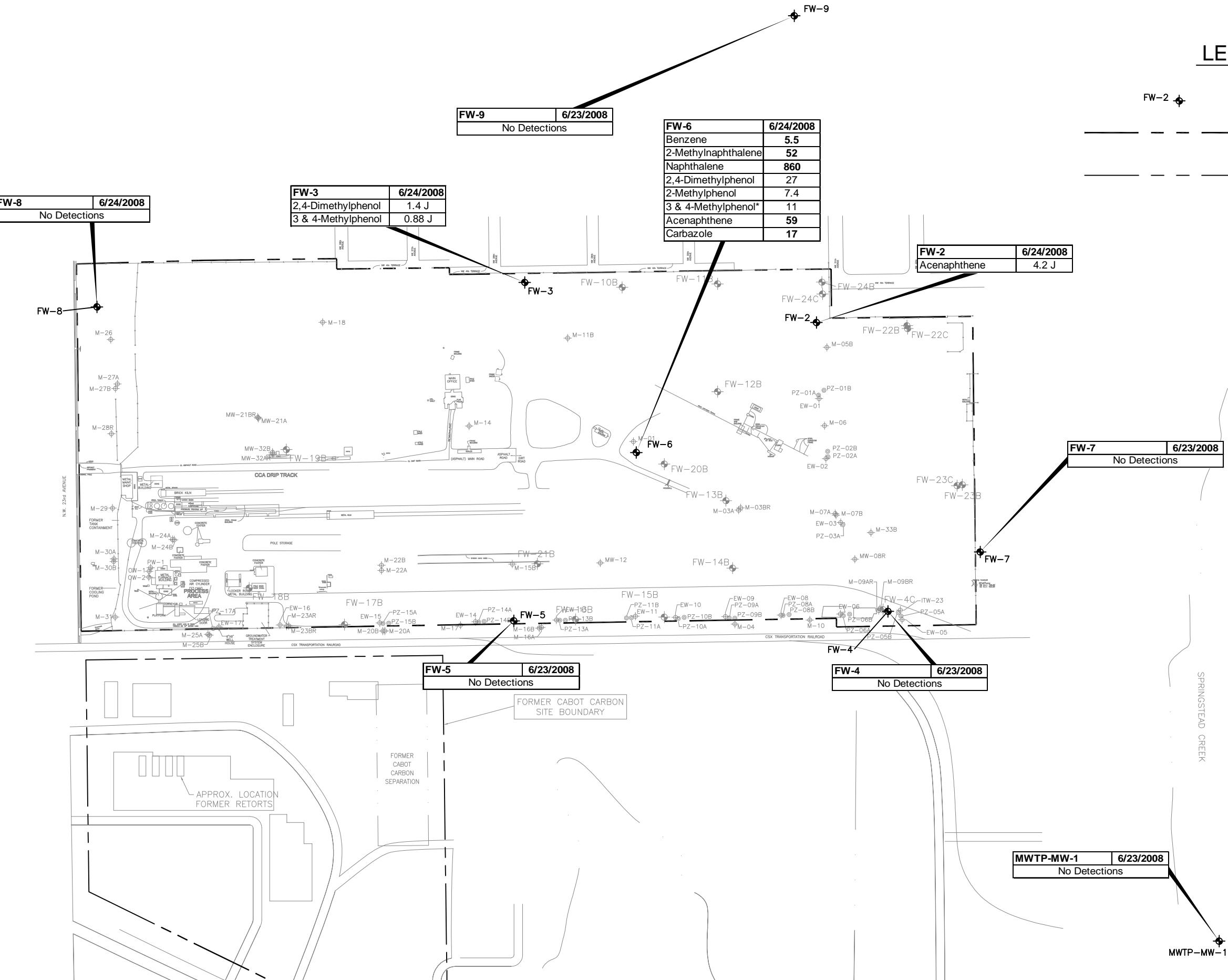




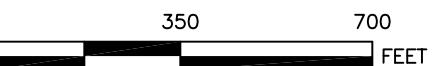


C:\a\projects\beazer\projects\gainevilles\cadd\2nd quarter 2008\figure-3.dwg Lost Saved By: Cjarmeson 8/27/2008 2:15 PM Plotted By: Charles Jameson 8/27/2008 2:15 PM Scale: 1:1

LEGEND



Florida GCTL	
Benzene	1
2-Methylnaphthalene	28
Naphthalene	14
2,4-Dimethylphenol	140
2-Methylphenol	35
3 & 4-Methylphenol*	35/3.5
Acenaphthene	20
Carbazole	1.8



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

CRJ	DATE: 07/31/08
KC	DATE: 07/31/08
JKG	DATE: 07/31/08
1°=350°	
TE: 07/31/08	

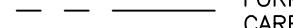
 FIELD & TECHNICAL SERVICES, LLC.
200 THIRD AVENUE
CARNEGIE, PA 15106

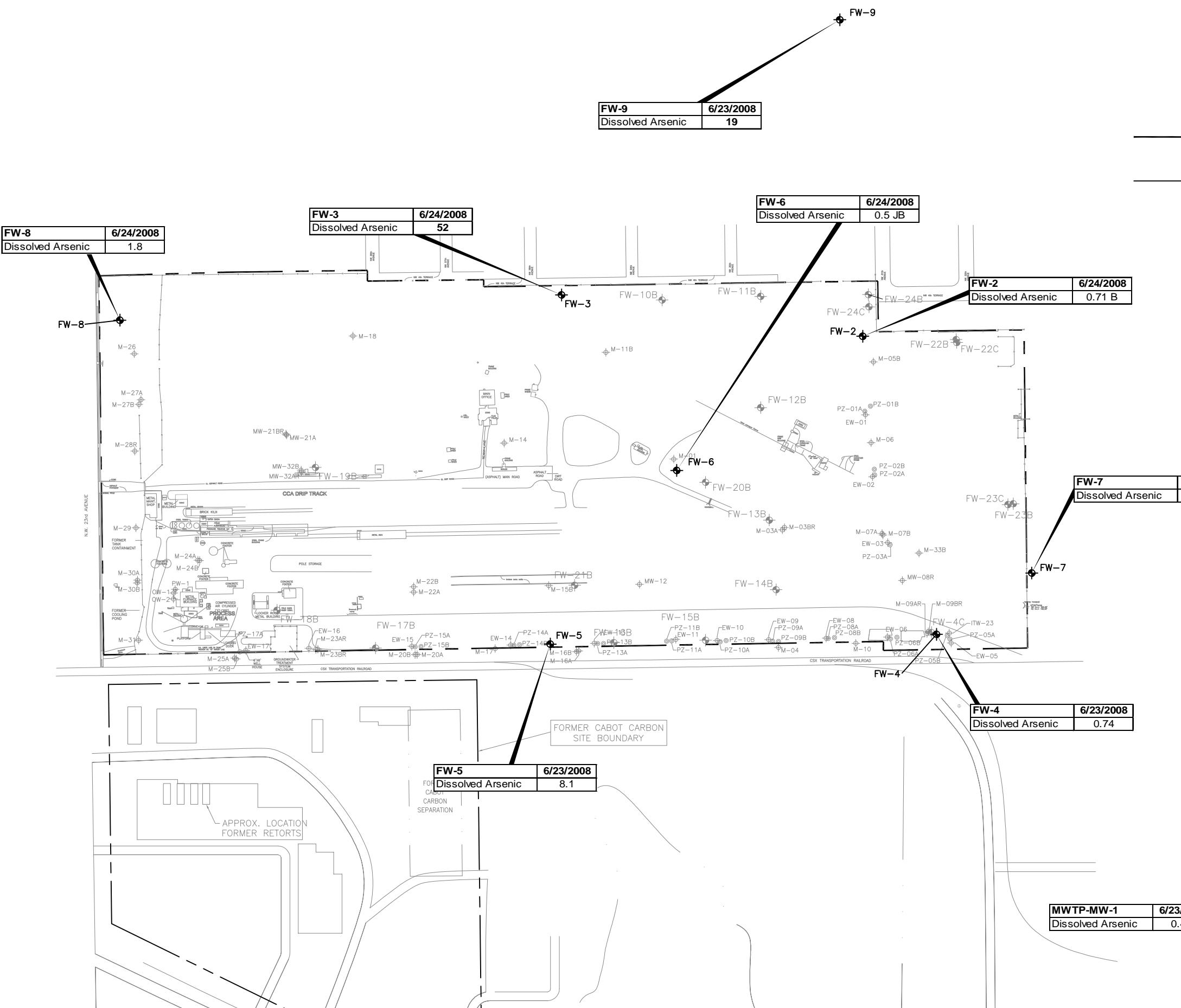
SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

NOTES:
J = INDICATES RESULT IS ESTIMATED.
* 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPARATELY USING USEPA SW-846 METHOD 8270C.
BOLD TEXT INDICATES THAT THE DETECTION IS ABOVE THE FLORIDA GROUNDWATER CLEAN UP TARGET LEVELS (GCTL).
ALL RESULTS ARE PRESENTED IN $\mu\text{g/L}$.

REV #	DATE	

LEGEND

-  MONITORING WELL
-  SUBJECT SITE PROPERTY LINE (APPROXIMATE)
-  FORMER CABOT CARBON SITE BOUNDARY



Florida GCTL	
Dissolved Arsenic	10

0 350 700 FEET

BEAZER EAST, INC.	
PITTSBURGH, PENNSYLVANIA	
DRWN:	CRJ DATE: 07/31/08
CHKD:	KC DATE: 07/31/08
APPD:	JGK DATE: 07/31/08
SCALE:	1"=350'
ISSUE DATE:	07/31/08

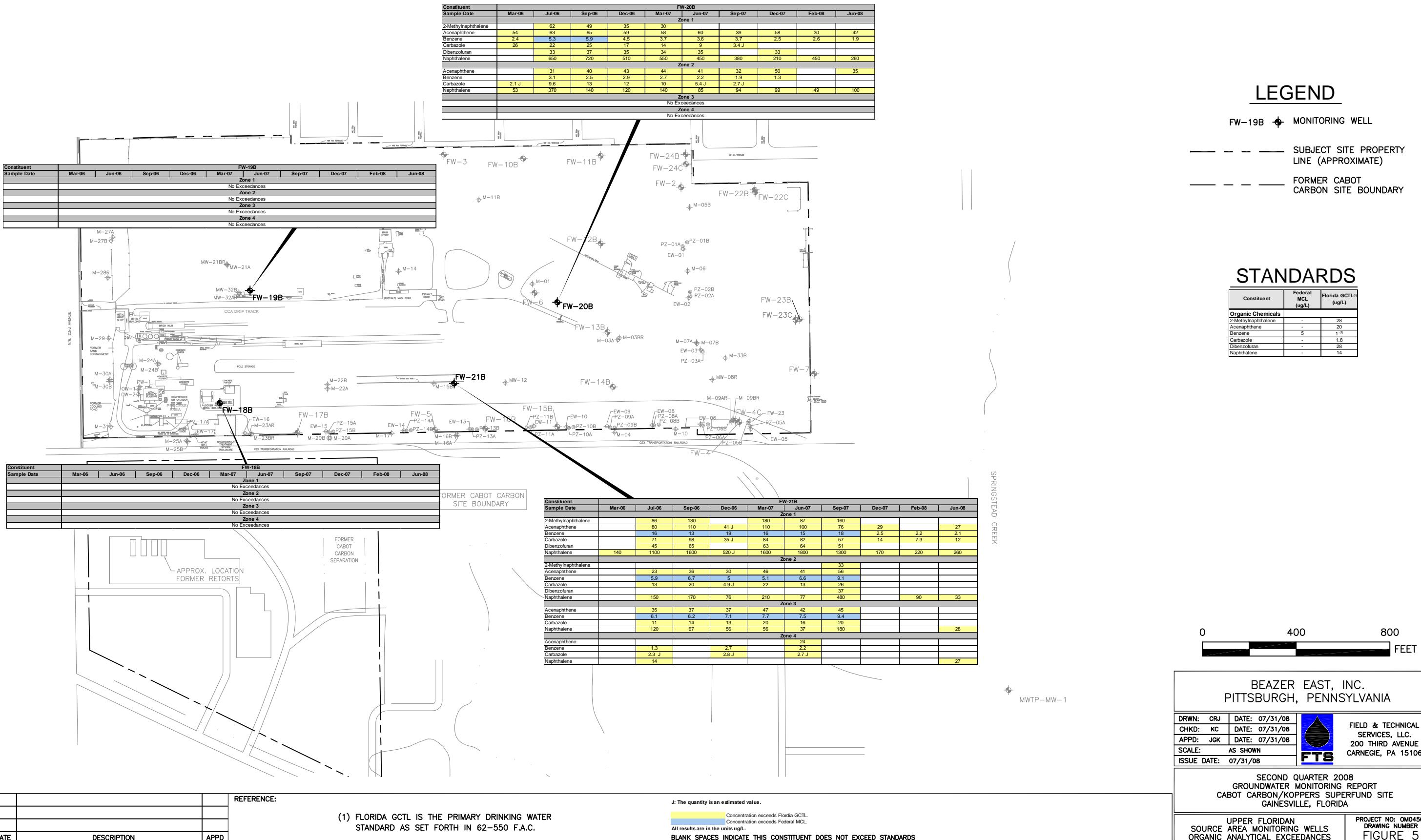
FIELD & TECHNICAL SERVICES, LLC.
200 THIRD AVENUE
CARNEGIE, PA 15106
FTS

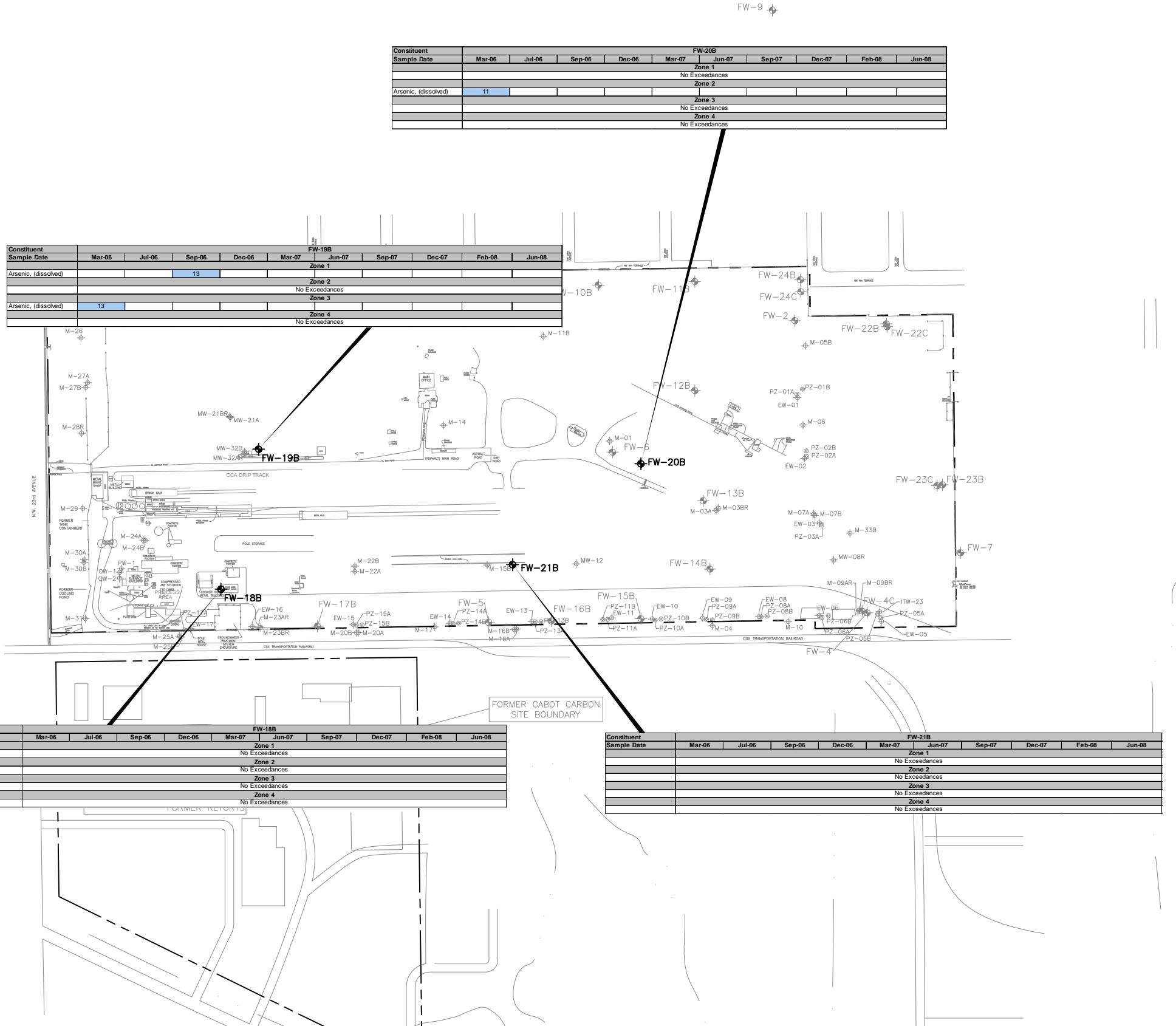
SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SPATIAL DISTRIBUTION OF DISSOLVED ARSENIC PROJECT NO: OM045008
DRAWING NUMBER FIGURE 4

NOTES:
BOLD TEXT INDICATES THAT THE DETECTION IS ABOVE THE FLORIDA GROUNDWATER CLEAN UP TARGET LEVELS (GCTL).
ALL RESULTS ARE PRESENTED IN ug/L.
J = INDICATES RESULT IS ESTIMATED.
B = BLANK CONTAMINATION

REFERENCE: RETEC 2005 4TH QUARTER FLORIDIAN AQUIFER GROUNDWATER MONITORING REPORT; MARCH 3, 2006.





REV #	DATE	DESCRIPTION	APPD
-------	------	-------------	------

REFERENCE:

(1) FLORIDA GCTL IS THE PRIMARY DRINKING WATER STANDARD AS SET FORTH IN 62-550 F.A.C.

Concentration exceeds Federal MCL.

All results are in the units ug/L.

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: CRJ	DATE: 07/31/08
CHKD: KC	DATE: 07/31/08
APPD: JGK	DATE: 07/31/08
SCALE: AS SHOWN	
ISSUE DATE: 07/31/08	

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

FTS

SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

UPPER FLORIDAN SOURCE AREA
MONITORING WELLS DISSOLVED METALS
ANALYTICAL EXCEEDANCES

PROJECT NO: OM045008
DRAWING NUMBER FIGURE 6

STANDARDS

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
Acenaphthene	-	20
Benzene	5	1 ⁽¹⁾
Carbazole	-	1.8
Dibenzofuran	-	28
Naphthalene	-	14

LEGEND

FW-10B • MONITORING WELL

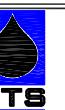
SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

0 400 800 FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: CRJ DATE: 07/31/08
CHKD: KC DATE: 07/31/08
APPD: JGK DATE: 07/31/08
SCALE: AS SHOWN
ISSUE DATE: 07/31/08



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

SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

UPPER FLORIDAN
TRANSECT AREA MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES
PROJECT NO: OM045008
DRAWING NUMBER FIGURE 7

Constituent	FW-11B										
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08
Zone 1	No Exceedances										
Zone 2	No Exceedances										
Zone 3	No Exceedances										
Zone 4	No Exceedances										
	No Exceedances										

Constituent	FW-12B											
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jul-08	
Benzene		1.5		1.6	1.6	1.7	2	2		1.3		
2-Methylphenol										38		
Naphthalene		48	40	45	44	46	47			48		
Benzene		15		17	15	16	21	21.8		1.2		
Naphthalene												
2-Methylnaphthalene												
Acenaphthene	29	28	52	35	33	43	56	54	26	53		
Carbazole	1.7					2.1	3	4	3.4	3.8	2.7	3.4 J
Dibenzofuran		29								29		
Naphthalene	160	380	500	370	410	540	780	830	550	760	870	
2-Methylnaphthalene						32	31	33	32	41	47	32
Acenaphthene	40	45	61	55	55	62	60	55	53	29 J	49	
Benzene	2.2	3.1	4.2		4.1	3.5	3.6	3.1	3.9	2.9	2	
Carbazole	16	23	32	34	31	32	34	29	13 J	25		
Dibenzofuran	280	660	650	550	620	780	630	500	240	330		

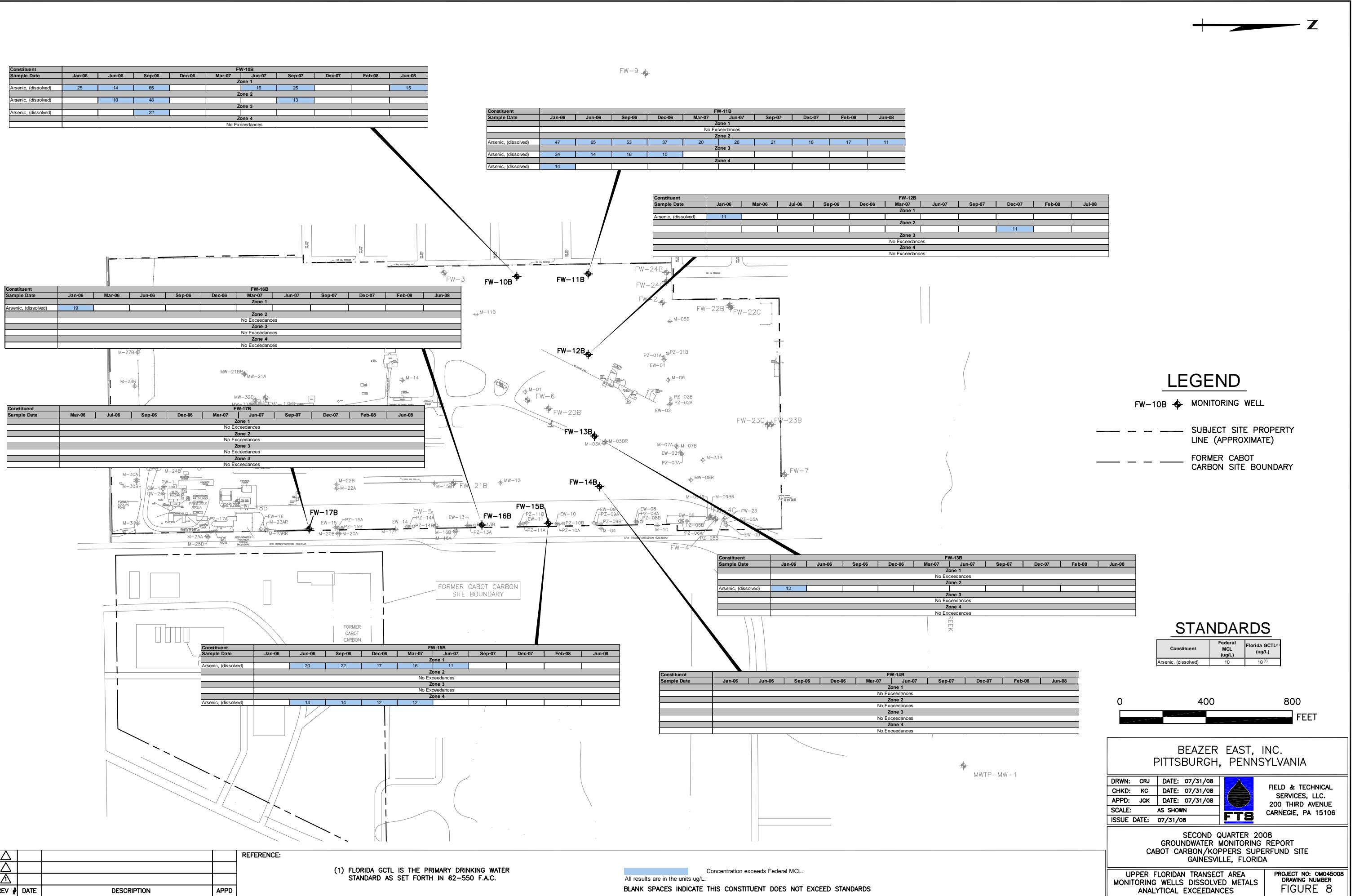
Constituent	FW-13B										
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	
Zone 1	No Exceedances										
Zone 2	No Exceedances										
Zone 3	No Exceedances										
Zone 4	No Exceedances										

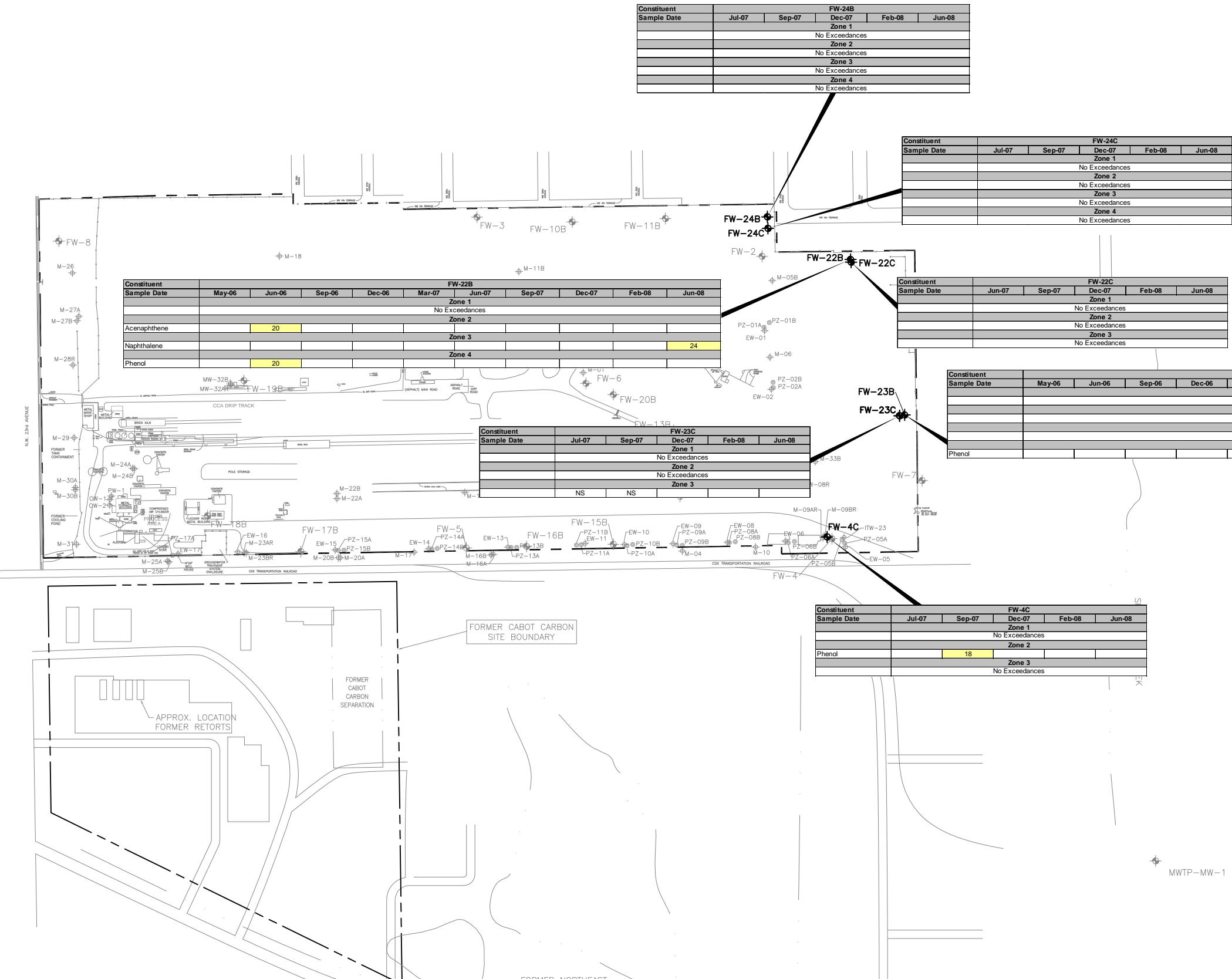
Constituent	FW-14B										
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	
Zone 1	No Exceedances										
Zone 2	No Exceedances										
Zone 3	No Exceedances										
Zone 4	No Exceedances										

Constituent	FW-15B										
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	
Zone 1	No Exceedances										
Zone 2	No Exceedances										
Zone 3	No Exceedances										
Zone 4	No Exceedances										

Constituent	FW-10B										
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	
Zone 1	No Exceedances										
Zone 2	No Exceedances										
Zone 3	No Exceedances										
Zone 4	No Exceedances										
	No Exceedances										

Constituent	FW-16B			
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LEGEND

- FW-10B • MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL (ug/L)	Florida GCTL® (ug/L)
Organic Chemicals		
Acenaphthene	-	20
Naphthalene	-	14
Phenol	-	10

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	CRJ	DATE:	07/31/08
CHKD:	KC	DATE:	07/31/08
APPD:	JGK	DATE:	07/31/08
SCALE:	AS SHOWN		
ISSUE DATE:	07/31/08		

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


SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

REV #	DATE	DESCRIPTION	APPD	PROJECT NO: OM045008 DRAWING NUMBER FIGURE 9
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△		
△		

REFERENCE:

(1) FLORIDA GCTL IS THE PRIMARY DRINKING WATER STANDARD AS SET FORTH IN 62-550 F.A.C.

NS - NOT SAMPLED

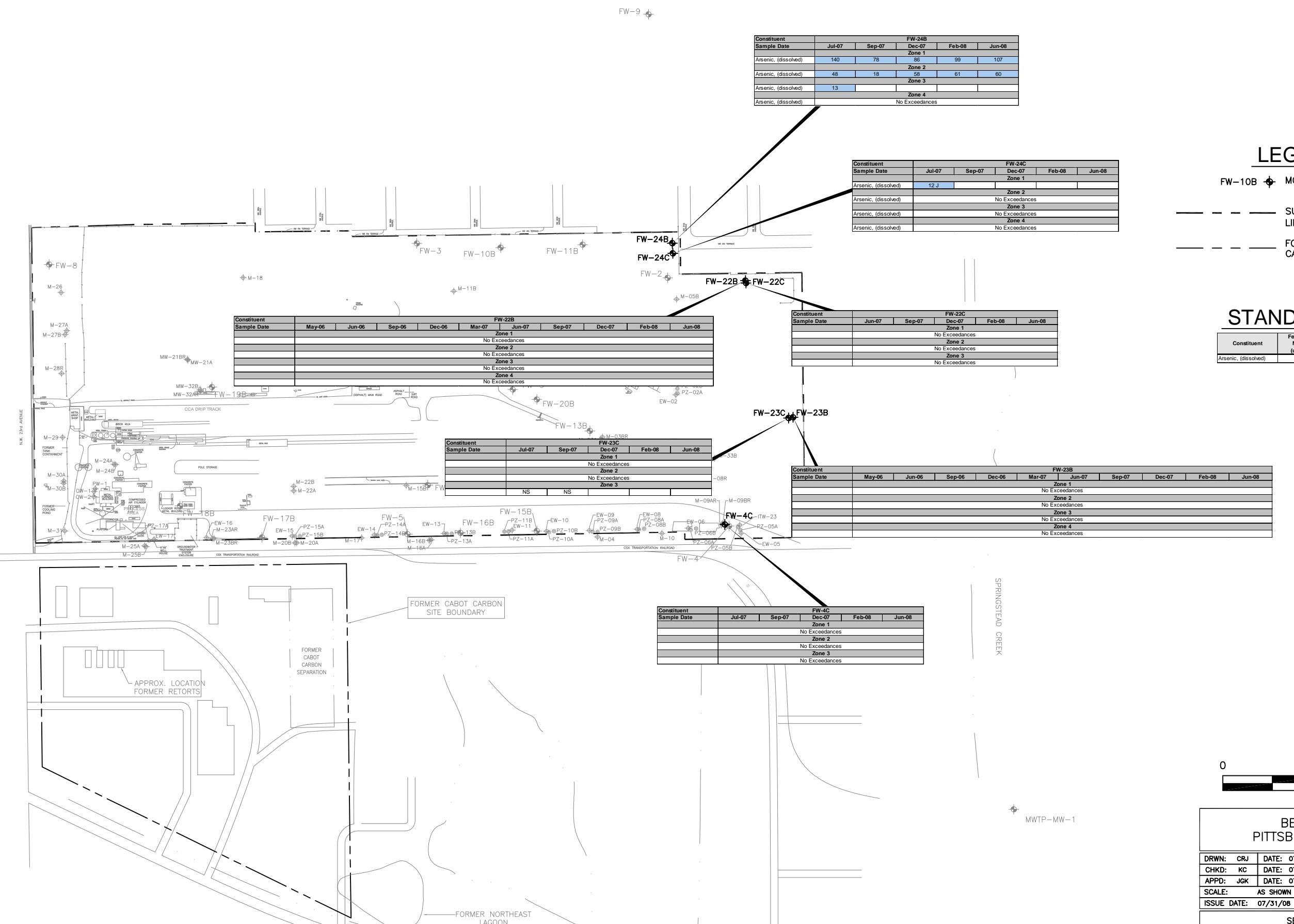
Concentration exceeds Florida GCTL.

Concentration exceeds Federal MCL.

All results are in the units ug/L.

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

8/15/2008 4:51:00 PM Pictured By: Charles Jameson 8/27/2008 2:17 PM Scale: 1:1
Last Saved By: Clemmons 8/15/2008 4:51:00 PM
8/10/2008 10.dwg
beazer projects\adinesville\add\2nd quarter 2008\figure-10.dwg



Constituent	FW-24B				
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08
Arsenic, (dissolved)	140	78	86	99	107
			Zone 1		
Arsenic, (dissolved)	48	18	58	61	60
			Zone 2		
Arsenic, (dissolved)	13				
			Zone 3		
Arsenic, (dissolved)					
			Zone 4		
Arsenic, (dissolved)			No Exceedances		

Constituent	FW-24C					
	Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08
Arsenic, (dissolved)	12 J					Zone 1
Arsenic, (dissolved)						Zone 2
Arsenic, (dissolved)						No Exceedances
Arsenic, (dissolved)						Zone 3
Arsenic, (dissolved)						No Exceedances
Arsenic, (dissolved)						Zone 4
Arsenic, (dissolved)						No Exceedances

Constituent	FW-22C				
Sample Date	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08
			No Exceedances		
			Zone 2		
			No Exceedances		
			Zone 3		
			No Exceedances		

Constituent	FW-4C				
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08
			Zone 1	No Exceedances	
			Zone 2	No Exceedances	
			Zone 3	No Exceedances	
			Zone 4	No Exceedances	

LEGEND

FW-10B MONITORING WELL

SUBJECT SITE PROPERTY
LINE (APPROXIMATE)

— — — FORMER CABOT
CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL (ug/L)	Florida GCTL ⁽¹⁾ (ug/L)
Arsenic, (dissolved)	10	10 ⁽¹⁾

0 400 800 FEET

WN: CRJ DATE: 07/31/08
KD: KC DATE: 07/31/08
PD: JGK DATE: 07/31/08
ALE: AS SHOWN
UE DATE: 07/31/08

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

**SECOND QUARTER 2008
GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA**

**UPPER FLORIDAN BOUNDARY
MONITORING WELLS DISSOLVED METALS
ANALYTICAL EXCEEDANCES**



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

REV #	DATE	DESCRIPTION	APPROVAL
1	12/15/2010	Initial Submission	
2	12/15/2010	Revised Submission	
3	12/15/2010	Final Submission	

REFERRED

(1) FLORIDA GCTL IS THE PRIMARY DRINKING WATER STANDARD AS SET FORTH IN 62-550 F.A.C.

J: The quantity is an estimated value.

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

LEGEND

FW-10B MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

Constituent	FW-1B									
	Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08
	Zone 1									
	No Exceedances									
Arsenic, (dissolved)	47	65	53	37	20	26	21	18	17	11
	Zone 2									
	No Exceedances									
Arsenic, (dissolved)	34	14	16	10						
	Zone 3									
Arsenic, (dissolved)	14									
	Zone 4									

Constituent	FW-10B									
	Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08
	Zone 1									
	No Exceedances									
Arsenic, (dissolved)	25	14	65		16	25			15	
	Zone 2									
	No Exceedances									
Arsenic, (dissolved)	10		48			13				
	Zone 3									
Arsenic, (dissolved)	22									
	Zone 4									
	No Exceedances									

Constituent	FW-20B									
	Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08
	Zone 1									
	No Exceedances									
Arsenic, (dissolved)	11									
	Zone 2									
	No Exceedances									
Arsenic, (dissolved)	11									
	Zone 3									
	No Exceedances									
	Zone 4									
	No Exceedances									

Constituent	FW-19B									
	Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08
	Zone 1									
	No Exceedances									
Arsenic, (dissolved)	13									
	Zone 2									
	No Exceedances									
Arsenic, (dissolved)	13									
	Zone 3									
	No Exceedances									
	Zone 4									
	No Exceedances									

Constituent	FW-18B									
	Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08
	Zone 1									
	No Exceedances									
	Zone 2									
	No Exceedances									
	Zone 3									
	No Exceedances									
	Zone 4									
	No Exceedances									

Constituent	FW-17B									
Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08

<tbl_r cells="11" ix="5

ATTACHMENT A-1

FIELD FORMS





Floridan

**GROUNDWATER SAMPLE
COLLECTION RECORD**

$FW = 3$

Project No.:	DM045008-091	Client:	Beazer, Inc.														
Project Name:	Florida Sampling Event	Project Location:	Gainesville, FL														
Weather Conditions:	Sunny 56°	Sampling Date:	6/24/08														
1. WATER LEVEL DATA (measured from top of inner well casing)																	
a.	Depth to LNAPL:	NA	(ft) b. Depth to Water: 141.31 (ft)														
c.	Depth to DNAPL:	NA	(ft) d. Total Well Depth: 159.85 (ft)														
e.	LNAPL Thickness:	(a-b) NA	(ft) f. DNAPL Thickness: (c-d) NA (ft)														
g.	Length of Water Column:	18.52	(ft) (e-d)														
h.	Well Volume:	3.0	(gal)														
2. WELL PURGE DATA																	
a.	Purge Method:	Low Flow															
b.	Field Testing Equipment:	VTE 556	HIGH 210C														
c.	Required Total Purge Volume (1f x 2c) (gals.):	NA															
d.	Total Volume and Number of Well Volumes Removed:	10,000 ML															
e.	Begin Purge Time: 0900	End Purge Time: 0950															
<table border="1"> <thead> <tr> <th colspan="2">Conversion Factors</th> </tr> <tr> <th colspan="2">(ft x gal = m)</th> </tr> <tr> <th>Well ID</th> <th>Conv. Factor (ft)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.351</td> </tr> <tr> <td>2</td> <td>0.61</td> </tr> <tr> <td>3</td> <td>0.33</td> </tr> <tr> <td>4</td> <td>1.176</td> </tr> </tbody> </table>				Conversion Factors		(ft x gal = m)		Well ID	Conv. Factor (ft)	1	0.351	2	0.61	3	0.33	4	1.176
Conversion Factors																	
(ft x gal = m)																	
Well ID	Conv. Factor (ft)																
1	0.351																
2	0.61																
3	0.33																
4	1.176																
Read No.	Lapse Time (min.)	Purge Rate (ml/min.)	Temp (deg. C) (±10%)	pH (±0.2)	Spec. Cond. (mS/cm) (±1%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Salinity (%)	TDS (g/L)	Water Level (ft)						
PRE PURGE VALUES																	
1	4	200	26.42	9.23	-258	-220.7	2.60	11.4	—	—	141.40						
PURGING VALUES																	
2	9	200	26.64	9.02	-293	-269.5	2.20	8.9	—	—	141.41						
3	15	200	26.39	8.59	-344	-180.0	1.91	8.7	—	—	141.44						
4	20	26.36	8.50	-353	-161.4	1.77	6.3	—	—	—	141.43						
5	26	25.87	8.46	-367	-133.3	1.62	4.7	—	—	—	141.42						
6	32	25.64	8.37	-370	-119.4	1.54	3.0	—	—	—	141.43						
7	40	25.61	8.36	-368	-115.1	1.51	1.7	—	—	—	141.43						
8	45	25.59	8.36	-369	-114.2	1.49	1.1	—	—	—	141.46						
9	50	25.58	8.36	-369	-113.9	1.47	0.9	—	—	—	141.49						
<p style="text-align: center;"><i>1.7 ft 6/24/08</i></p>																	
3. SAMPLE COLLECTION DATA				Sampling Personnel: JEFF LEAVELL													
Sampling Method(s) & Equip: Low Flow / SHAKER PUMP																	
Sample I.D. (Name, Date, Time): FW 2 - 6/24/08, 0950																	
Sample Analytical Parameters/Method: 9260C, 8270C, DSS, METAL/S																	
Comments:																	
Test M/S/MSD																	



Florida

GROUNDWATER SAMPLE WELL NO.: FW-3

COLLECTION RECORD

PERMIT NO.:

Project No.: OM045008-091		Client: Beazer, Inc.									
Project Name: Florida Sampling Event		Project Location: Gainesville, FL									
Weather Conditions: Sunny 76°		Sampling Date: 6/24/08									
1. WATER LEVEL DATA (measured from top of inner well casing)											
a.	Depth to LNAPL: NA (ft)	b.	Depth to Water: 145.93 (ft)								
c.	Depth to DNAPL: NA (ft)	d.	Total Well Depth: 159.37 (ft)								
e.	LNAPL Thickness: (a-b) NA (ft)	f.	DNAPL Thickness: (c-d) NA (ft)								
g.	Length of Water Column: 8.44 (ft)	(a-d)									
h.	Well Volume: 1.4 (gal)	Conversion Factors (a x e = h) Well ID Conv. Factor (ft)									
2. WELL PURGE DATA a. Purge Method: Low Flow b. Field Testing Equipment: XT 556, Mach 2000 c. Required Total Purge Volume (f1 x 2c) (gals): NA d. Total Volume and Number of Well Volumes Removed: 1,800 mL e. Begin Purge Time: 0730 End Purge Time: 0915											
Read No.	Lapse Time (min.)	Purge Rate (ml/min.)	Temp (deg. C)	pH (s.u.)	Spec Cond. (ms/cm)	Eh/ORP (mV)	Diss O2 (mg/L)	TURB (NTU)	Salinity (‰)	TDS (g/L)	Water Level (ft)
PRE PURGE VALUES											
1	3	200	23.72	9.45	.352	-166.1	3.70	13.7	—	—	146.07
PURGING VALUES											
2	10	100	23.44	9.70	.334	-201.7	3.10	6.4	—	—	146.05
3	15	100	23.77	9.81	.307	-211.4	2.34	5.7	—	—	146.08
4	20	100	23.55	9.70	.289	-226.5	1.90	4.9	—	—	146.10
5	25	100	23.77	9.78	.271	-231.8	1.40	4.4	—	—	146.06
6	30	100	23.48	9.64	.267	-231.7	1.11	3.2	—	—	146.07
7	35	100	23.50	9.60	.268	-232.3	1.04	2.7	—	—	146.05
8	40	100	23.50	9.60	.268	-232.8	1.01	1.9	—	—	146.06
9	45	100	23.51	9.59	.267	-233.1	0.98	1.4	—	—	146.08
3. SAMPLE COLLECTION DATA				Sampling Personnel: JEFF LEAVELL							
Sampling Method(s) & Equip: Low Flow / NORMAN PUMP											
Sample I.D. (Name, Date, Time): FW-3 - 06/24/08, 0817											
Sample Analytical Parameters/Method: 82600, 82700, 0155, 46721											
Sample Start Time: 0817				End Sample Time: 0840							
COMMENTS:											



Floridan

GROUNDWATER SAMPLE WELL NO.:
COLLECTION RECORD PERMIT NO.:

FW-4

Project No.:	OM045008-091	Client:	Beazer, Inc.								
Project Name:	Floridan Sampling Event	Project Location:	Gainesville, FL								
Weather Conditions:	AMW 34°	Sampling Date:	6/23/08								
1. WATER LEVEL DATA (measured from top of inner well casing)											
a. Depth to LNAPL:	NA (ft)	b. Depth to Water:	131.62 (ft)								
c. Depth to DNAPL:	NA (ft)	d. Total Well Depth:	159.82 (ft)								
e. LNAPL Thickness: (a-b)	NA (ft)	f. DNAPL Thickness: (c-d)	NA (ft)								
g. Length of Water Column:	28.20 (ft)	(a-d)									
h. Well Volume:	4.6 (gal)										
2. WELL PURGE DATA											
a. Purge Method:	Low Flow			Conversion Factors (1 x cf = hr)							
b. Field Testing Equipment:	YSI 556, HACH 2100P			Well I.D. Conv. Fact. (hr)							
c. Required Total Purge Volume (1f x 2c) (gals.):	NA			1 0.041							
d. Total Volume and Number of Well Volumes Removed:	3,500 mL			2 0.163							
e. Begin Purge Time: 0444/1020 End Purge Time: 1055				4 0.633							
6				1470							
Read No.	Lapse Time (min.)	Purge Rate (ml/min. $\pm 10\%$)	Temp (deg. C) (± 0.2)	pH (4.0-10) (± 0.1)	Spec. Cond. (ms/cm) ($\pm 1\%$)	EN/ORP (mV) ($\pm 10mV$)	Diss O ₂ (mg/L) ($\pm 10\%$)	TURB (NTU) ($\pm 10\%$)	Salinity %	TDS g/L	Water Level (ft)
PRE PURGE VALUES											
1	4	100	23.79	7.35	.302	74.7	5.60	4.2	—	—	131.65
PURGING VALUES											
2	10	100	23.86	7.32	.308	65.0	4.91	1.9	—	—	131.67
3	15		23.54	7.14	.330	40.1	3.50	1.1	—	—	131.66
4	20		23.40	7.06	.336	-37.6	2.11	0.9	—	—	131.67
5	25		23.37	7.05	.330	-41.4	1.22	0.7	—	—	131.67
6	30		23.35	7.04	.327	-49.7	1.13	0.4	—	—	131.65
7	35	↓	23.34	7.04	.325	-45.9	1.10	0.4	—	—	131.67
3. SAMPLE COLLECTION DATA											
Sampling Method(s) & Equip: Low Flow / GLASSFLO PUMP					Sampling Personnel: JEFF LEAVELL						
Sample ID. (Name, Date, Time): FWY-062308, 1030/08, 1100											
Sample Analytical Parameters/Method: 8260d, 8270C, O&G, METALS											
Sample Start Time: 100					End Sample Time: 1125						
COMMENTS:											
1020: PROBLEM WITH MP10 ENTERED, SWITCHED TO SPLIT-CHEM CONTROLLER											



Floridan

GROUNDWATER SAMPLE WELL NO.: FW-5
COLLECTION RECORD PERMIT NO.:

Project No.:	OM045008-091		Client:	Beazer, Inc.							
Project Name:	Floridan Sampling Event		Project Location:	Gainesville, FL							
Weather Conditions:	Sunny 90°		Sampling Date:	6/23/08							
1. WATER LEVEL DATA (measured from top of inner well casing)											
a. Depth to LNAPL:	NA	(ft)	b. Depth to Water:	139.73	(ft)						
c. Depth to DNAPL:	NA	(ft)	d. Total Well Depth:	155.33	(ft)						
e. LNAPL Thickness:	(a-b)	NA (ft)	f. DNAPL Thickness:	(c-d)	NA (ft)						
g. Length of Water Column:	15.60 (ft)		(a-d)								
h. Well Volume:	2.5 (gal)		Conversion Factors $(\text{ft} \times \text{in}^2 \times \text{ft})$ Well ID. Conv. Factor (ft) 1 0.041 2 0.03 3 0.029 4 0.028 5 0.027 6 0.026								
2. WELL PURGE DATA											
a. Purge Method:	LOW FLOW										
b. Field Testing Equipment:	KSE 556 HACH 200P										
c. Required Total Purge Volume (1f x 2c) (gals.):	NA										
d. Total Volume and Number of Well Volumes Removed:	9,200 ML										
e. Begin Purge Time:	16:50		End Purge Time:	17:50							
Read No.	Lapse Time	Purge Rate	Temp (deg. C)	pH (u.s.)	Spec Cond. (mg/cm ³)	Ch-ORP (mV)	Diss O ₂ (mg/L)	TURB (NTU)	Salinity (‰)	TDS (g/L)	Water Level (ft)
	(min.)	(ML/min.)	(±10%)	(±0.2)	(±3%)	(±10mV)	(±10%)	(±10%)			
PRE PURGE VALUES											
1	4	200	27.02	7.51	.510	-94.8	3.53	17.1	—	—	139.80
PURGING VALUES											
2	11	150	27.26	7.82	.408	-86.6	3.41	13.5	—	—	139.86
3	17	150	27.37	8.47	.399	-111.5	3.17	19.4	—	—	139.90
4	22	150	27.67	8.59	.383	-114.4	2.70	12.2	—	—	139.92
5	30	150	27.12	8.71	.379	-106.5	—	10.6	—	—	139.93
6	35	150	27.87	8.72	.379	-120.9	—	9.6	—	—	139.93
7	40	150	27.80	8.72	.378	-128.7	—	8.7	—	—	139.90
8	45	150	27.69	8.72	.378	-139.9	—	4.4	—	—	139.87
9	52	150	27.17	8.72	.378	-140.1	—	4.9	—	—	139.89
10	60	150	27.66	8.72	.377	-141.7	—	5.5	—	—	139.88
<i>17:20 6123108</i>											
3. SAMPLE COLLECTION DATA						Sampling Personnel: <u>JEFF LEAVES</u>					
Sampling Method(s) & Equip: <u>LOW FLOW / BLANKET Pump</u>											
Sample ID. (Name, Date, Time): <u>FW-5-062708 6/23/08 1750</u>											
Sample Analytical Parameters/Method: <u>8160B, 820C, 823, MEASURE</u>											
Sample Start Time: 1750						End Sample Time: 1815					
COMMENTS: <u>1720: moved flow through screen into tape shales</u>											



Floridan

GROUNDWATER SAMPLE WELL NO.:

COLLECTION RECORD PERMIT NO.:

FW-63

Project No.: OM045008-091		Client: Beazer, Inc.													
Project Name: Floridan Sampling Event		Project Location: Gainesville, FL													
Weather Conditions: Partly cloudy, 90°		Sampling Date: 6/24/08													
1. WATER LEVEL DATA (measured from top of inner well casing)															
a. Depth to LNAPL: NA (ft)	b. Depth to Water: 143.05 (ft)														
c. Depth to DNAPL: NA (ft)	d. Total Well Depth: 159.70 (ft)														
e. LNAPL Thickness: (a-b) NA (ft)	f. DNAPL Thickness: (c-d) NA (ft)														
g. Length of Water Column: 16.65 (ft)	(a-d)														
h. Well Volume: 2.7 (gal)															
2. WELL PURGE DATA															
a. Purge Method: Low Flow	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Conversion Factors (ft < ft = in.)</th> </tr> <tr> <th>Well I.D.</th> <th>Conv. Fact. (in.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.041</td> </tr> <tr> <td>2</td> <td>0.033</td> </tr> <tr> <td>4</td> <td>0.053</td> </tr> <tr> <td>5</td> <td>1.00</td> </tr> </tbody> </table>			Conversion Factors (ft < ft = in.)		Well I.D.	Conv. Fact. (in.)	1	0.041	2	0.033	4	0.053	5	1.00
Conversion Factors (ft < ft = in.)															
Well I.D.				Conv. Fact. (in.)											
1				0.041											
2				0.033											
4	0.053														
5	1.00														
b. Field Testing Equipment: YSI 5TC, 44CH 2100 P															
c. Required Total Purge Volume (1f x 2c) (gals): NA															
d. Total Volume and Number of Well Volumes Removed: 5,000 gal															
e. Begin Purge Time: 1450 End Purge Time: 1540															
Read No.	Lap/s Time (min.)	Purge Rate (deg. C) (±0.05%)	Temp (°F) (±0.2)	pH	Spec. Cond. (mg/cm ³) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Salinity ‰	TDS mg/L	Water Level (ft)				
PURGE VALUES															
1	4	100	31.57	7.76	.415	-108.9	4.02	16.3	—	—	143.14				
2	10	100	30.70	8.51	.509	-189.9	3.60	7.1	—	—	143.14				
3	16	100	30.10	8.19	.400	-194.7	2.44	6.3	—	—	143.14				
4	22	100	27.66	9.40	.394	-226.7	2.02	5.7	—	—	143.14				
5	27		27.16	9.32	.389	-230.0	1.81	4.0	—	—	143.14				
6	33		27.08	9.26	.389	-232.1	1.77	2.7	—	—	143.15				
7	40		27.02	9.22	.389	-233.8	1.71	1.9	—	—	143.15				
8	45		27.02	9.21	.388	-234.2	1.68	0.4	—	—	143.15				
9	50	↓	27.01	9.21	.388	-234.9	1.67	0.1	—	—	143.15				
Low Flow															
3. SAMPLE COLLECTION DATA				Sampling Personnel: JEFF LEAVER											
Sampling Method(s) & Equip: Low Flow / CHANNEL PUMP															
Sample I.D. (Name, Date, Time): FWG-062408 6/24/08 1540															
Sample Analytical Parameters/Method: SOLID 8270 C, DSS, METALS															
Sample Start Time: 1540				End Sample Time: 1635											
COMMENTS:															



Floridan

GROUNDWATER SAMPLE WELL NO.: FW-7
COLLECTION RECORD PERMIT NO.:

Project No.:	QMO45008-091	Client:	Beazer, Inc.										
Project Name:	Floridan Sampling Event	Project Location:	Gainesville, FL										
Weather Conditions:	Cloudy 86°	Sampling Date:	6/23/08										
1. WATER LEVEL DATA (measured from top of inner well casing)													
a. Depth to LNAPL:	NA (ft)	b. Depth to Water:	126.37 (ft)										
c. Depth to DNAPL:	NA (ft)	d. Total Well Depth:	157.29 (ft)										
e. LNAPL Thickness: (a-b)	NA (ft)	f. DNAPL Thickness: (c-d)	NA (ft)										
g. Length of Water Column:	30.92 (ft)	(a-d)											
h. Well Volume:	5.0 (gal)	Conversion Factors (in x cf = ft)											
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Well I.D.</th> <th>Conv. Fact (cf)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.641</td> </tr> <tr> <td>2</td> <td>0.163</td> </tr> <tr> <td>4</td> <td>0.483</td> </tr> <tr> <td>5</td> <td>1.470</td> </tr> </tbody> </table>				Well I.D.	Conv. Fact (cf)	1	0.641	2	0.163	4	0.483	5	1.470
Well I.D.	Conv. Fact (cf)												
1	0.641												
2	0.163												
4	0.483												
5	1.470												
2. WELL PURGE DATA													
a. Purge Method:	LOW FLOW												
b. Field Testing Equipment:	VIT 556, HACH 2100P												
c. Required Total Purge Volume (if > 2c) (gals.):	NA												
d. Total Volume and Number of Well Volumes Removed:	9,000 mL												
e. Begin Purge Time:	1500	End Purge Time:	1545										
Read No.	Lapw Time (mIn.)	Purge Rate (ml/min.)	Temp (deg. C) (±10%)	pH (±0.2)	Spec. Cond. (µS/cm) (±10%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/l) (±10%)	TURB (NTU) (±10%)	Salinity %	TDS g/L	Water Level (ft)		
PRE PURGE VALUES													
1	4	200	24.26	7.76	.385	-83.6	5.00	4.7	—	—	126.39		
PURGING VALUES													
2	10	200	23.11	7.59	.400	-60.9	4.49	3.7	—	—	126.42		
3	15	200	22.62	7.48	.404	-47.7	3.30	3.1	—	—	126.43		
4	22	200	22.39	7.32	.406	-34.8	2.10	2.3	—	—	126.45		
5	30	200	22.27	7.28	.405	-35.1	1.78	1.8	—	—	126.43		
6	35	200	22.24	7.30	.405	-35.9	1.62	1.1	—	—	126.42		
7	40	200	22.23	7.52	.405	-36.5	1.57	0.9	—	—	126.42		
8	45	200	22.23	7.32	.405	-37.0	1.55	0.9	—	—	126.44		
1500-1545 6/23/08													
3. SAMPLE COLLECTION DATA				Sampling Personnel:		SEFF LEVEE							
Sampling Method(s) & Equip:				LOW FLOW / BLAINE PUMP									
Sample I.D. (Name, Date, Time):				FW-7-062308, 6/23/08, 1550									
Sample Analytical Parameters/Method:				8760C, 8770C, 9155, METAL/S									
Sample Start Time:				1550									
End Sample Time:				1610									
COMMENTS:													



Floridan

GROUNDWATER SAMPLE WELL NO. 1

COLLECTION RECORD PERMIT NO.:

FW-8

Project No.: OM045003-091		Client: Beazer, Inc.									
Project Name: Floridan Sampling Event		Project Location: Gainesville, FL									
Weather Conditions: Sunny 88°		Sampling Date: 6/24/08									
1. WATER LEVEL DATA (measured from top of inner well casing)											
a. Depth to LNAPL:	NA (ft)	b. Depth to Water:	144.03 (ft)								
c. Depth to DNAPL:	NA (ft)	d. Total Well Depth:	152.51 (ft)								
e. LNAPL Thickness: (a-b)	NA (ft)	f. DNAPL Thickness: (c-d)	NA (ft)								
g. Length of Water Column:	8.48 (ft)	(a-d)									
h. Well Volume:	1.4 (gal)										
2. WELL PURGE DATA											
a. Purge Method:	Low Flow / Plunge Pump										
b. Field Testing Equipment:	WT 555 HACH 2100P										
c. Required Total Purge Volume (11 x 2c) (gals):	NA										
d. Total Volume and Number of Well Volumes Removed:	9,000 mL										
e. Begin Purge Time: 13:20	End Purge Time: 14:06										
Read No.	Lapse Time (min.)	Purge Rate (ml/min. ±10%)	Temp (deg. C) (±0.2)	pH (±0.2)	Spec. Cond. (mS/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Salinity (‰) (±10‰)	ITC (oz.)	Water Level (ft)
PRE PURGE VALUES											
1	3	200	30.77	8.39	.335	50.7	4.45	3.7	—	—	144.18
PURGING VALUES											
2	9	200	27.47	7.71	.377	32.1	3.77	3.1	—	—	144.20
3	15	200	26.27	7.17	.416	42.9	1.93	2.7	—	—	144.22
4	20	200	26.19	7.18	.417	37.7	1.81	1.9	—	—	144.23
5	26	200	26.07	7.20	.417	32.6	1.68	1.5	—	—	144.23
6	33	200	26.05	7.20	.417	31.9	1.62	1.4	—	—	144.24
7	40	200	26.04	7.21	.417	31.5	1.59	0.9	—	—	144.24
8	45	200	26.04	7.21	.418	31.0	1.56	0.6	—	—	144.24
3. SAMPLE COLLECTION DATA											
Sampling Method(s) & Equip: Low Flow / Plunge Pump						Sampling Personnel: JEFF LEAVER					
Sample ID. (Name, Date, Time): FW8-062408, 6/24/08 14:00											
Sample Analytical Parameters/Method: 8260-R 8270-C, D151, M2345											
Sample Start Time: 14:00						End Sample Time: 14:30					
COMMENTS:											

	Floridan	GROUNDWATER SAMPLE WELL NO.: FW-9	COLLECTION RECORD PERMIT NO.:								
Project No.: OM045008-091		Client: Beaver, Inc.									
Project Name: Floridan Sampling Event		Project Location: Gainesville, FL									
Weather Conditions: Partly cloudy		Sampling Date: 6/23/08									
1. WATER LEVEL DATA (measured from top of inner well casing)											
a. Depth to LNAPL:	NA	b. Depth to Water:	141.96 (ft)								
c. Depth to DNAPL:	NA	d. Total Well Depth:	155.88 (ft)								
e. LNAPL Thickness:	(a-b) NA (ft)	f. DNAPL Thickness:	(c-d) NA (ft)								
g. Length of Water Column:	13.92 (ft)	(a-d)									
h. Well Volume:	2.3 (gal)	Conversion Factors (a x of b)									
2. WELL PURGE DATA											
a. Purge Method:	Low Flow										
b. Field Testing Equipment:	YSI 556, HACH 2100P										
c. Required Total Purge Volume (If x 2c) (gals.):	NA										
d. Total Volume and Number of Well Volumes Removed:	11,000 mL										
e. Begin Purge Time:	12:40	End Purge Time:	12:44								
Well I.D.	Const. Factor, ref.										
1	0.341										
2	0.163										
4	0.053										
6	0.027										
Read Time No. (min.)	Purge Rate ml/min. (±10%)	Temp (deg. C) (±0.2)	pH (±0.2)	Spec. Cond. (ms/cm) (±3%)	Eh/ORP (mV) (±10mV)	Diss O2 (mg/L) (±10%)	TURB (NTU) (±10%)	Salinity ‰ (±10%)	TDS G/L	Water Level (ft)	
PRE PURGE VALUES											
1	6	20.0	23.60	7.46	4.20	-36.0	3.62	1.3	—	—	142.08
PURGING VALUES											
2	12	20.0	23.67	7.36	4.73	-88.9	3.20	1.0	—	—	142.08
3	20		23.77	7.33	4.91	-104.3	2.87	0.8	—	—	142.08
4	25		23.81	7.31	4.99	-109.6	2.52	0.7	—	—	142.08
5	30		23.84	7.31	5.02	-107.9	2.40	0.3	—	—	142.08
6	35		23.86	7.31	5.07	-108.7	2.17	0.3	—	—	142.08
7	40		23.87	7.32	5.09	-108.9	1.80	0.1	—	—	142.09
8	45		23.89	7.32	5.10	-109.5	1.67	0.1	—	—	142.09
9	50		23.90	7.32	5.10	-110.4	1.62	0.1	—	—	142.09
10	55	V	23.90	7.32	5.11	-111.1	1.58	0.1	—	—	142.09
<i>6/23/08</i>											
3. SAMPLE COLLECTION DATA				Sampling Personnel: JEFF LEAVENS							
Sampling Method(s) & Equip:				Low Flow / Bladder Pump							
Sample I.D. (Name, Date, Time):				FW9-062308, 6/23/08, 1245							
Sample Analytical Parameters/Method:				8265A, 8270C, DSS, metal							
Sample Start Time: 12:45				End Sample Time: 13:05							
COMMENTS:											



Floridan

GROUNDWATER SAMPLE WELL NO.: MWTR-MWRI
COLLECTION RECORD PERMIT NO.:

Project No.: OM045008-091		Client: Beazer, Inc.											
Project Name: Floridan Sampling Event		Project Location: Gainesville, FL											
Weather Conditions: Cloudy RC		Sampling Date: 6/23/08											
1. WATER LEVEL DATA (measured from top of inner well casing)													
a. Depth to LNAPL:	NA (ft)	b. Depth to Water:	119.33 (ft)										
c. Depth to DNAPL:	NA (ft)	d. Total Well Depth:	169.08 (ft)										
e. LNAPL Thickness:	(a-b) NA (ft)	f. DNAPL Thickness:	(c-d) NA (ft)										
g. Length of Water Column:	49.75 (ft)	(a-d)											
h. Well Volume:	8.1 (gal)	Conversion Factors (a x c) - (b)											
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Well ID.</th> <th>Conv. Fact. (ft)</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>0.083</td> </tr> <tr> <td>5</td> <td>0.476</td> </tr> </tbody> </table>				Well ID.	Conv. Fact. (ft)	1	0.041	2	0.163	4	0.083	5	0.476
Well ID.	Conv. Fact. (ft)												
1	0.041												
2	0.163												
4	0.083												
5	0.476												
2. WELL PURGE DATA													
a. Purge Method:	Low Flow												
b. Field Testing Equipment:	YSI 556 / HACH 2100P												
c. Required Total Purge Volume (1f x 2c) (gals.):	NA												
d. Total Volume and Number of Well Volumes Removed:	4,000 GL												
e. Begin Purge Time: 1530	End Purge Time: 1410												
Test No.	Lapse Time (min.)	Purge Rate (ml/min.)	Temp (deg. C) (+/-10%)	pH (+/-0.2)	Spec. Cond. (mS/cm) (+/-5%)	EH/ORP (mV) (+/-10mV)	Diss O2 (mg/L) (+/-10%)	TURB (NTU) (+/-10%)	Salinity %	TDS GR.	Water Level (ft)		
PRE PURGE VALUES													
1	5	100	26.13	8.23	.403	10.6	4.19	11.7	—	—	119.38		
PURGING VALUES													
2	10	100	26.30	8.43	.438	-61.4	4.00	9.4	—	—	119.40		
3	15		26.08	7.58	.511	-119.7	3.21	8.7	—	—	119.39		
4	20		26.04	7.47	.518	-122.9	2.59	8.5	—	—	119.39		
5	25		26.02	7.45	.519	-123.8	1.90	7.7	—	—	119.38		
6	30		26.02	7.45	.519	-124.0	1.77	6.9	—	—	119.38		
7	35		26.04	7.45	.519	-124.4	1.58	4.1	—	—	119.38		
8	40	V	26.05	7.44	.520	-124.7	1.56	3.3	—	—	119.40		
5/23/08													
3. SAMPLE COLLECTION DATA				Sampling Personnel: JEFF LEEVER									
Sampling Method(s) & Equip: Low Flow / BURDERS PUMP													
Sample I.D. (Name, Date, Time): MWTR-MWRI - 062308, 6/23/08, 1414													
Sample Analytical Parameters/Method: 82008, 82705, P.T.T. METALS													
Sample Start Time: 1414				End Sample Time: 1440									
COMMENTS:													

ATTACHMENT A-2

FIELD FORMS – UPPER FLORIDAN WELLS FW-4C THROUGH FW-24C





A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-22C
Sampling Zone No(s): 3,2,1

WD-FTS-1

AMBIENT PRESS. 14.84

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/27/01 6/24/03
Start Time: 0820
End Time: 0850
Technicians: AC BT GB
AC 6/24/01

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								117.21		113.30		113.30				117.21
3	1	✓	✓	✓	/	/	/	364.9	124.69	✓	113.46	/	113.46	/	/	124.69	4 1650
3	2								117.17		113.30		113.30				117.17
3	2	✓	/	/	/	/	/		124.64	✓	113.45	/	113.45	/	/	124.64	4
3	3								116.38		113.38		113.38				116.38
3	3	/	/	/	/	/	/	↓	123.82	✓	113.45	/	113.45	/	/	123.82	2
3	4																
3	5																
3	6																
3	7																
2	1								110.78		106.84		106.84				110.78
2	1	✓	✓	✓	✓	✓	✓	350.1	118.21	✓	107.02	✓	107.02	✓	✓	118.16	4 0820
2	2								110.76		106.84		106.84				110.76
2	2	✓	✓	✓	✓	✓	✓	350.7	118.18	✓	107.02	✓	107.02	✓	✓	118.17	4
2	3								109.78		106.83		106.83				109.78
2	3	✓	✓	✓	✓	✓	✓	351.2	117.18	✓	107.01	✓	107.02	✓	✓	117.19	Start 2 tubes
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, 70° calm

Ambient:
14.72



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-22C
Sampling Zone No(s): 3,2,1

Ambient: 14.74

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/24/08
Start Time: 0900
End Time: 0920
Technicians: GB / KC

Additional Comments: (pH, Turbidity, S.C., etc.)



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-13B
Sampling Zone No(s): 2,4,1,3

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/24/08

Start Time: 10:10

End Time: 15:30

Technicians: AC / UB

AMBIENT: 14.70

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)		
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In		
2	1								37.84		32.29		32.29			37.84		
2	1	✓	✓	✓	✓	✓	✓	177.6	43.71	✓	32.46	✓	32.45	✓	✓	43.74	Collected Dug (2) (FW-97B)	
2	2								37.83		32.30		32.30				37.83	
2	2	✓	✓	✓	✓	✓	✓	177.8	43.69	✓	32.46	✓	32.46	✓	✓	43.69	4	
2	3								36.82		32.29		32.29				36.82	
2	3	✓	✓	✓	✓	✓	✓	178.1	43.68	✓	32.46	✓	32.46	✓	✓	43.67	4	
2	4	✓	✓	✓	✓	✓	✓	177.8	43.62	✓	32.46	✓	32.46	✓	✓	43.62	4	
2	5	✓	✓	✓	✓	✓	✓	178.0	43.13	✓	32.46	✓	32.47	✓	✓	43.13	3 TUBES	
2	6																	
2	7																	
4	1								55.18		49.59		49.59				55.18	
4	1	✓	✓	✓	✓	✓	✓	217.6	60.95	✓	49.75	✓	49.76	✓	✓	60.96	4 1130	
4	2								55.16		49.60		49.60				55.16	
4	2	✓	✓	✓	✓	✓	✓	217.7	60.92	✓	49.77	✓	49.77	✓	✓	60.92	4	
4	3								54.16		49.60		49.60				54.16	
4	3	✓	✓	✓	✓	✓	✓	218.2	59.93	✓	49.75	✓	49.75	✓	✓	59.93	2 TUBES	
4	4																	
4	5																	
4	6																	
4	7																	

Additional Comments: (pH, Turbidity, S.C., etc.)



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-13B
Sampling Zone No(s): 2,4,13

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/24/08
Start Time: 1320
End Time: 1530
Technicians: AC/GB

AMBIENT 14.70

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <i># tubes Sample time</i>	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
1	1								29.21		23.63		23.63				29.21	
1	1	/	/	/	/	/	/	157.7	34.83	/	23.81	/	23.80	/	/	34.82	4	1320
1	2								29.18		23.63		23.63				29.18	
1	2	/	/	/	/	/	/	157.7	34.79	/	23.84	/	23.81	/	/	34.78	4	
1	3								28.21		23.65		23.65				28.21	
1	3	/	/	/	/	/	/	157.6	33.80	/	23.81	/	23.81	/	/	33.81	2 TUBES	
1	4																	
1	5																	
1	6																	
1	7																	
3	1								46.44		40.96		40.96				46.44	
3	1	/	/	/	/	/	/	197.5	52.10	/	41.12	/	41.11	/	/	52.10	4	1520
3	2									46.42		40.96		40.96			46.42	
3	2	/	/	/	/	/	/		52.05	/	41.12	/	41.12	/	/	52.05	4	
3	3									46.40		40.96		40.96			46.40	
3	3	/	/	/	/	/	/		51.07	/	41.11	/	41.12	/	/	51.09	2 TUBES	
3	4									46.37		40.95		40.95			46.37	
3	4																	
3	5								45.88		40.96		40.96				45.88	
3	5																	
3	6																	
3	7																	

Additional Comments: (pH, Turbidity, S.C., etc.)



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-24C
Sampling Zone No(s): 4,1,3,2

Ambient: 14.64

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/24/08 / 6/24/08
Start Time: 1310, 1410 / 0800
End Time: 0920
Technicians: GB, BP, JL, AC

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) # Tubes	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1							365.6	113.33		113.64		113.64				113.33
4	1	✓	✓	✓	✓	✓	✓	277.8	125.09	✓	113.67	✓	113.67	✓	✓	✓	125.09
4	2								113.31		113.64		113.64				113.31
4	2	✓	✓	✓	✓	✓	✓		125.05	✓	113.67	✓	113.67	✓	✓	✓	125.05
4	3								112.30		113.64		113.64				112.30
4	3	✓	✓	✓	✓	✓	✓		123.59	✓	113.68	✓	113.66	✓	✓	✓	123.59
4	4																
4	5																
4	6																
4	7																
1	1							Ambient 14.67	87.48		87.77		87.77				87.48
1	1	✓	✓	✓	✓	✓	✓	307.6	99.48	✓	87.83	✓	87.83	✓	✓	✓	99.48
1	2								87.45		87.77		87.77				87.45
1	2	✓	✓	✓	✓	✓	✓	307.6	99.48	✓	87.82	✓	87.83	✓	✓	✓	99.47
1	3								86.47		87.78		87.78				86.47
1	4																
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Partly cloudy, 90°, Humid, calm; Magi reading unable to connect to probe; test resistance, troubleshoot w/ Westbay

WB-FTS-2

WB-FTS-1
82



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-24C

Sampling Zone No(s): 4,1,3,2

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/26/08

Start Time: 0935

End Time: 0920

Technicians: BP, GB, JL, K, EH,

Ambient: 14.67

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								104.58		105.01		105.01			104.58	#TUBS Sample Time
3	1	✓	✓	✓	✓	✓	✓	347.8	116.72	✓	105.07	✓	105.07	✓	✓	116.71	5 0935
3	2								104.53		105.01		105.01			104.53	
3	2	✓	✓	✓	✓	✓	✓	348.1	116.69	✓	105.06	✓	105.07	✓	✓	116.68	5
3	3								103.55		105.01		105.01			103.55	
3	3																
3	4																
3	5																
3	6																
3	7																
2	1								96.00		96.39		96.39			96.00	
2	1	✓	✓	✓	✓	✓	✓	327.2	107.9	✓	96.43	✓	96.43	✓	✓	107.90	5 0900
2	2								95.96		96.39		96.39			95.96	
2	2	✓	✓	✓	✓	✓	✓		107.92	✓	96.44	✓	96.44	✓	✓	107.92	5
2	3								94.99		96.39		96.39			36.09	
2	3																
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

WB PTS-2
#2 combo

WB PTS-2
#2



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-4C
Sampling Zone No(s): 3,1,2

WD-FTS-1: Magi
WB-FTS-2: Probe

6/24: Ambient: 14.69

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/24/08, 6/26/08 6/25/08

Start Time: 1620

End Time: 0830 (6/28)

Technicians: AC/GB, RH/GB

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)								Comments (volume retrieved) <i># tubes</i> <i>Sample time</i>
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
3	1							364.3	119.11		116.85		116.85				119.11	
3	1	✓	✓	✓	✓	✓	✓	120.76	→	✓	116.90	✓	116.90	✓	✓	✓	120.70	4 1620
3	2							364.9	119.10		116.55		116.85				119.10	
3	2	✓	✓	✓	✓	✓	✓	120.76	→	✓	116.90	✓	116.90	✓	✓	✓	120.75	4
3	3								118.07		116.85		116.85				118.07	
3	3	✓	✓	✓	✓	✓	✓	369.2	119.34	✓	116.90	✓	116.90	✓	✓	✓	119.34	Z
3	4																	
3	5																	
3	6																	
3	7																	
1	1								98.30		95.73		95.73				98.30	
1	1	✓	✓	✓	✓	✓	✓	316.8	98.94	✓	95.69	✓	95.69	✓	✓	✓	98.94	5 0730
1	2								98.01		95.73		95.73				98.01	
1	2	✓	✓	✓	✓	✓	✓		98.74	✓	95.69	✓	95.69	✓	✓	✓	98.94	S
1	3								97.94		95.73		95.72				97.81	
1	3																	
1	4																	
1	5																	
1	6																	
1	7																	

Additional Comments: (pH, Turbidity, S.C., etc.)

Ambient: 14.69



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-4C
Sampling Zone No(s): 3,1,2

Ambient 14.70

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/25/08

Start Time: 07/0

End Time: 0830

Technicians: RH, GD

Additional Comments: (pH, Turbidity, S.C., etc.)

50' north of creosote poles, slight breeze; 75°



A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-14B

Sampling Zone No(s): 1,3,4,2

FTS-WB1

Ambient: 19.63

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/23/08

Start Time: 0820

End Time: 1210

Technicians: R. Hancey, G. Becket, A. Clark

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) # Sample tubes	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1								26.39		25.31			25.31			26.39
1	1	✓	✓	✓	✓	✓	✓	158.8'	36.71	✓	25.40	✓	25.40	✓	✓	36.71	4 0845
1	2								26.37		25.31			25.31			26.37
1	2	✓	✓	✓	✓	✓	✓	158.9'	36.67	✓	25.40	✓	25.40	✓	✓	36.67	4
1	3								26.35		25.30			25.30			26.35
1	3	-	✓	✓	✓	✓	✓	158.9'	36.65	✓	25.37	✓	25.37	✓	✓	36.65	4
1	4																
1	5																
1	6																
1	7																
3	1								47.76		42.62			42.62			47.76
3	1	✓	-	✓	✓	-	✓	198.8'	54.00	✓	42.68	✓	42.68	✓	✓	54.00	4 0930
3	2								45.56		42.62			42.62			45.56
3	2	✓	✓	-	✓	✓	✓	198.9'	53.99	✓	42.69	✓	42.69	✓	✓	53.99	4
3	3								45.49		43.79			43.79			45.49
3	3	✓	✓	✓	✓	✓	✓	199.1	53.46	✓	42.69	✓	42.69	✓	✓	53.46	4
3	4																
3	5																
3	6																
3	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Creosote poles stored 30 ft. to
Cloudy; west breeze 10 mph; scattered



A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-14B

Sampling Zone No(s): 1,3,4,2

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/23/08

Start Time: 0820

End Time: 1210

Technicians: R. Hancar, G. Broek, A. Clark

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) #Tubes Sample Time		
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In		
4	1								53.46		51.27			51.27		53.46		
4	1	✓	✓	✓	✓	✓	✓	219.2'	62.60	✓	51.33	✓	51.33	✓	✓	62.60	4 1030	
4	2								54.33		51.26			51.26			54.33	
4	2	✓	✓	✓	✓	✓	✓	219.4'	62.57	✓	51.33	✓	51.33	✓	✓	62.57	4	
4	3								54.31		51.26			51.26			54.31	
4	3	✓	✓	✓	✓	✓	✓	219.5'	61.58	✓	51.35	✓	51.35	✓	✓	61.58	2	
4	4																	
4	5																	
4	6																	
4	7																	
2	1								37.07		34.01			34.01			37.07	
2	1	✓	✓	✓	✓	✓	✓	180.0'	45.16	✓	34.04	✓	34.04	✓	✓	45.16	4 1100	
2	2								37.08		34.00			34.00			37.08	
2	2	✓	✓	✓	✓	✓	✓		45.15	✓	34.04	✓	34.04	✓	✓	45.15	4	
2	3								37.05		33.98			33.98			37.05	
2	3	✓	✓	✓	✓	✓	✓	179.7'	45.15	✓	34.05	✓	34.05	✓	✓	45.15	4 FW-99A	
2	4								37.02		33.95			33.95			37.02	
2	4	✓	✓	✓	✓	✓	✓		45.15	✓	34.04	✓	34.04	✓	✓	45.15	4	
2	5								37.03		33.98			33.98			37.03	
2	5	✓	✓	✓	✓	✓	✓	180.4'	45.15	✓	34.04	✓	34.04	✓	✓	45.15	4	
2	6								37.00		33.98			33.98			37.00	
2	6																	
2	7																	

Additional Comments: (pH, Turbidity, S.C., etc.)

Duplicate FW-99A-062308:2000



A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-23B

Sampling Zone No(s): 4,3,1,2

FTS-WB-3

Ambient pressure: 14.69

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/23/08

Start Time: 1300

End Time: 1630

Technicians: RH, GB, AC, BF

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <i># tubes</i> <i>Sample time</i>	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1								52.62		50.74		50.74				52.62
4	1	✓	✓	✓	✓	✓	✓	211.6'	61.91	✓	50.88	✓	50.88	✓	✓	61.91	4 1310
4	2								52.58		50.75		50.75				52.58
4	2	✓	✓	✓	✓	✓	✓	211.9'	61.91	✓	50.88	✓	50.88	✓	✓	61.91	4
4	3								52.57		50.75		50.75				52.57
4	3	✓	✓	✓	✓	✓	✓	212.2'	60.90	✓	50.89	✓	50.89	✓	✓	60.90	2
4	4								52.55		50.75		50.75				52.55
4	4								52.53		50.74		50.74				52.53
4	5								52.53		50.74		50.74				52.53
4	6								52.52		50.73		50.73				52.52
4	6								52.50		50.74		50.74				52.50
4	7								52.50		50.74		50.74				52.50
4	7								43.97		42.09		42.09				43.97
3	1								43.97		42.09		42.09				43.97
3	1	✓	✓	✓	✓	✓	✓	1928'	53.12	✓	42.22	✓	42.22	✓	✓	53.12	4 1335
3	2								43.94		42.10		42.10				43.94
3	2	✓	✓	✓	✓	✓	✓		53.11	✓	42.22	✓	42.22	✓	✓	53.11	4
3	3								42.99		42.09		42.09				42.99
3	3	✓	✓	✓	✓	✓	✓		53.05	✓	42.23	✓	42.23	✓	✓	53.05	4 ms/ms
3	4	✓	✓	✓	✓	✓	✓		53.03	✓	42.22	✓	42.22	✓	✓	53.03	4
3	5	✓	✓	✓	✓	✓	✓	1935'	53.01	✓	42.23	✓	42.23	✓	✓	53.01	4
3	6	✓	✓	✓	✓	✓	✓		53.00	✓	42.23	✓	42.23	✓	✓	53.00	4
3	7								43.97		42.09		42.09				43.97

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny 85°, calm, Sulphur odor to water



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-23B
Sampling Zone No(s): 4,3,1,2

WB-FTS-1

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/23/08

Start Time: 1300

End Time: 1630

Technicians: RH, AC, CB, BP

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) #Tubes Sample time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1								26.64		24.78		24.78				26.64
1	1	✓	✓	✓	✓	✓	✓	154.2'	35.56	✓	24.90	✓	24.90	✓	✓	✓	35.56 4 1510
1	2								26.63		24.79		24.79				26.63
1	2	✓	✓	✓	✓	✓	✓		35.53	✓	24.91	✓	24.91	✓	✓	✓	35.53 4
1	3								25.65		24.78		24.78				25.65
1	3	✓	✓	✓	✓	✓	✓		34.57	✓	24.92	✓	24.92	✓	✓	✓	34.57 2
1	4																EB-01-062308: 1530
1	5																FB-01-062308: 1540
1	6																
1	7																
2	1								35.41		33.45		33.45				35.41
2	1	✓	✓	✓	✓	✓	✓	171.8'	44.20	✓	33.56	✓	33.56	✓	✓	✓	44.20 4 1600
2	2								35.36		33.45		33.45				35.36
2	2	✓	✓	✓	✓	✓	✓		44.17	✓	33.57	✓	33.57	✓	✓	✓	44.17 4
2	3								34.38		33.45		33.45				34.38
2	3	✓	✓	✓	✓	✓	✓		43.21	✓	33.55	✓	33.55	✓	✓	✓	43.21 2
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny 90°, calm; sulphur odor to water



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-10B
Sampling Zone No(s): 2,3,4,1

WB-FTS-1: Mag;
WD-FTS-2: Probe
Ambient 4.70

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/25/08

Start Time: 0840

End Time: 1040

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <i># tubes sample time</i>	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
2	1								32.41		29.33		29.33			32.41	
2	1	✓	✓	✓	✓	✓	✓	176.5	40.76	✓	29.44	✓	29.44	✓	✓	40.76	5 0845
2	2								32.39		29.33		29.33				32.39
2	2	✓	✓	✓	✓	✓	✓	↓	40.76	✓	29.44	✓	29.44	✓	✓	40.76	5
2	3								32.36		29.32		29.32				32.36
2	3																
2	4																
2	5																
2	6																
2	7																
3	1								41.23		37.99		37.99			41.23	
3	1	✓	✓	✓	✓	✓	✓	196.5	49.42	✓	38.08	✓	38.08	✓	✓	49.42	5 0915
3	2								41.20		38.00		38.00				41.20
3	2	✓	✓	✓	✓	✓	✓	↓	49.38	✓	38.08	✓	38.08	✓	✓	49.38	5
3	3								40.20		37.96		37.96				40.20
3	3																
3	4																
3	5																
3	6																
3	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, 80's; slight breeze, Dusty



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-10B
Sampling Zone No(s): 2,3,4,1

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/25/08
Start Time: 0840
End Time: 1040
Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <u># tubes</u> <u>Sample time</u>	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1								49.86		46.65		46.65				49.86
4	1	✓	✓	✓	✓	✓	✓	216.5	✓	58.04	✓	46.73	46.73	✓	✓	58.04	5 0940
4	2								49.83		46.63		46.63				49.83
4	2	✓	✓	✓	✓	✓	✓	↓	58.02	✓	46.73	✓	46.73	✓	✓	58.02	5 FW-99C-2000
4	3								48.85		46.62		46.62				48.85
4	3	✓	✓	✓	✓	✓	✓	216.7	58.01	✓	46.72	✓	46.72	✓	✓	58.01	5
4	4	✓	✓	✓	✓	✓	✓		57.50	✓	46.74	✓	46.74	✓	✓	57.50	4
4	5																
4	6																
4	7																
1	1								23.57		20.65		20.65				23.57
1	1	✓	✓	✓	✓	✓	✓	166.7	31.90	✓	20.77	✓	20.77	✓	✓	31.90	5 1020
1	2								23.56		20.66						
1	2	✓	✓	✓	✓	✓	✓	↓	31.88	✓	20.77	✓	20.77	✓	✓	31.88	5
1	3								23.06		20.66		20.66				23.06
1	3																
1	4																
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Duplicate FW99C taken on Zone 4



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-15B
Sampling Zone No(s): 2,4,1,3

WB FTS 1: probe
WB FTS 2: Mag.
Ambient: 14.68

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/25/08
Start Time: 10:00
End Time: 12:50
Technicians: FTS/EFM

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) H Tubes Sample Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
2	1								38.25		32.97		32.97			38.25	
2	1	✓	✓	✓	✓	✓	✓	178.5'	44.89	✓	33.12	✓	33.12	—	—	44.89	5 1100
2	2								38.22		32.97		32.97				38.22
2	2	✓	✓	✓	✓	✓	✓	↓	44.84	✓	33.12	✓	33.12	✓	✓	44.84	5
2	3								37.26		32.97		32.97				37.26
2	3	✓															
2	4																
2	5																
2	6																
2	7																
4	1								55.58		50.28		50.28			55.58	
4	1	✓	✓	✓	✓	✓	✓	218.3'	62.18	✓	50.43	✓	50.43	✓	✓	62.18	5 1130
4	2								55.57		50.28		50.28				55.57
4	2	✓	✓	✓	✓	✓	✓	↓	62.14	✓	50.44	✓	50.44	✓	—	62.18	5
4	3								54.59		50.27		50.27				54.59
4	3																
4	4																
4	5																
4	6																
4	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, 90°, slight west breeze, dusty

FB03-062508 taken at 1110



A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-15B

Sampling Zone No(s): 2,4,1,3

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/25/08

Start Time: 10:50

End Time: 12:00

Technicians: ETS/EFM

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) # Tubs Sample time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1								29.38		24.30		24.30			29.38	
1	1	✓	✓	✓	✓	✓	✓	158.3'	36.06	✓	24.48	✓	24.46	✓	✓	36.06	5 1200
1	2								29.40		24.31		24.31				29.40
1	2	✓	✓	✓	✓	✓	✓		36.03	✓	24.47	✓	24.47	✓	✓	36.03	5
1	3								29.38		24.31		24.31			29.38	
1	3																
1	4																
1	5																
1	6																
1	7																
3	1								46.83		41.64		41.64			46.83	
3	1	✓	✓	✓	✓	✓	✓	198'	53.40	✓	41.80	✓	41.80	✓	✓	53.40	5 1230
3	2								46.82		41.63		41.63			46.82	
3	2	✓	✓	✓	✓	✓	✓		53.38	✓	41.80	✓	41.80	✓	✓	53.38	5
3	3								45.85		41.62		41.62			45.85	
3	3																
3	4																
3	5																
3	6																
3	7																

Additional Comments: (pH, Turbidity, S.C., etc.)



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-23C
Sampling Zone No(s): 3,1,2

WB FTS-1: Probe
UD FTS-2: Mag
Ambient: 14.64

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/25/08

Start Time: 1300

End Time: 1550

Technicians: R.H., G.B., J.C.

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <i># Tuber Sample Time</i>		
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()		
3	1								89.98		117.03		117.03				89.98		
3	1	✓	✓	✓	✓	✓	✓	365.4	122.87	✓	117.03	—	117.03	✓	—	122.87	2	1315	
3	2								88.91		117.03		117.03					88.91	
3	2	✓	✓	✓	✓	✓	✓		122.81	—	117.03	✓	117.03	✓	✓	122.81	2		
3	3								87.92		117.03		117.03					87.92	
3	3	✓	—	✓	✓	✓	✓		122.81	✓	117.02	✓	117.02	✓	✓	122.81	2		
3	4								87.01		117.03		117.03					87.01	
3	4	✓	✓	—	—	✓	✓		122.81	✓	117.02	✓	117.02	✓	✓	122.81	2		
3	5								86.03		117.03		117.03					86.03	
3	5	✓	✓	✓	✓	✓	✓		122.79	✓	117.02	✓	117.02	—	—	122.79	2		
3	6																	Only able to drop 2 tubes; hit well bottom.	
3	7																		
1	1								71.79		94.59		94.59				71.79		
1	1	✓	✓	✓	✓	✓	✓	314.4	101.70	✓	94.61	✓	94.61	✓	✓	101.70	5	1430	
1	2								70.54		94.60		94.60						
1	2	✓	✓	✓	✓	✓	✓		101.70	✓	94.60	✓	94.60	✓	✓	101.70	5		
1	3								68.26		94.59		94.59						
1	3																		
1	4																		
1	5																		
1	6																		
1	7																		

Additional Comments: (pH, Turbidity, S.C., etc.)

Rain, 80° light sulphur odor;
Filter blank 02-062508 taken before Zone 2 1510
~> ~4-062508 L.Lin at 1500

EB04-062508:1500
Filter blank 02-062508:1510



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-23C
Sampling Zone No(s): 3,1,2

Additional Comments: (pH, Turbidity, S.C., etc.)



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-19B
Sampling Zone No(s): 4,2,3,1

Ambient: 14.70

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/25/08

Start Time: 1600

End Time: 1800

Technicians: PTS/EFM

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1								49.67		46.69		46.69				49.67
4	1	✓	✓	✓	✓	✓	✓	215.6	51.78	✓	46.92	✓	46.92	✓	/		55.78 5 1610
4	2								49.64		46.70		46.70				49.64
4	2	✓	✓	✓	✓	✓	✓		55.78	/	46.91	✓	46.91	✓	✓		55.78 5
4	3								49.92		46.68		46.68				49.92
4	3																
4	4																
4	5																
4	6																
4	7																
2	1								32.53		29.39		29.39				32.53
2	1	✓	✓	✓	✓	✓	✓	175.7	38.33	✓	29.63	✓	29.63	✓	✓		38.33 5 1630
2	2								32.53		29.38		29.38				
2	2	✓	✓	✓	✓	✓	✓		38.31	✓	29.62	✓	29.62	✓	✓		38.31 5
2	3								31.54		29.38		29.38				31.54
2	3																
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Cloudy, breezy; south wind 5-10 mph, 75°



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-19B
Sampling Zone No(s): 4,2,3,1

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/25/08
Start Time: 1600
End Time: 1800
Technicians: FTS, EFM

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								41.31		38.04		38.04				41.31
3	1	✓	✓	✓	✓	✓	✓	195.7'	46.97	✓	38.27	✓	38.27	✓	✓	46.97	5 1700
3	2								41.32		38.04		38.04				41.32
3	2	✓	✓	✓	✓	✓	✓	195.9'	46.97	-	38.27	-	38.27	-	-	46.97	5 040 FW99D-062508
3	3								41.30		38.03		38.03				41.30
3	3	✓	-	-	✓	-	✓		46.93	✓	38.26	✓	38.26	-	-	46.93	5
3	4								41.28		38.03		38.03				41.28
3	4	✓	✓	-	-	-	-		46.91	✓	38.27	-	38.27	✓	✓	46.91	5
3	5								41.25		38.04		38.04				41.25
3	5																
3	6																
3	7																
1	1								23.82		20.73		20.73				23.82
1	1	✓	✓	/	✓	✓	✓	196.4'	29.52	✓	20.97	✓	20.97	✓	✓	29.52	5 1745
1	2								23.81		20.73		20.73				23.81
1	2	✓	✓	/	/	/	/	196.5'	29.50	✓	20.97	✓	20.97	✓	✓	29.50	5
1	3								22.84		20.73		20.73				22.84
1	3																
1	4																
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Duplicate FW99D-062508:2000 taken on Zone 3



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-17B
Sampling Zone No(s): 4,1,3,2

WB - FTS-2

Ambient: 14.64

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Groundwater Sampling Field Data Sheet

Date: 6/24/08

Start Time: 0745

End Time: 1200

Technicians: RH, BP

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Sample Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1								53.10		48.67		48.67				53.10
4	1	✓	✓	-	-	✓	✓	217.0	59.17	✓	48.72	✓	48.72	✓	✓	✓	59.17 4 10000
4	2								53.07		48.66		48.66				53.07
4	2	✓	✓	✓	✓	✓	✓		59.17	✓	48.72	✓	48.72	✓	✓	✓	59.17 4 0820
4	3								53.03		48.65		48.65				53.03
4	3	✓	✓	✓	✓	✓	✓		58.20	✓	48.71	✓	48.71	✓	✓	✓	58.20 2
4	4																
4	5																
4	6																
4	7																
1	1								158.4	27.00		22.76		22.76			27.00
1	1	✓	✓	✓	-	-	✓		33.12	✓	22.82	✓	22.82	✓	✓	✓	33.12 4 1000
1	2									26.98		22.76		22.76			26.98
1	2	✓	✓	✓	✓	✓	✓		158.2	33.12	✓	22.84	✓	22.84	✓	✓	33.12 4 0930
1	3									26.97		22.76		22.76			26.97
1	3	✓	✓	✓	✓	✓	✓		32.15	✓	22.85	✓	22.85	✓	-	32.15 2	
1	4									26.95		22.76		22.76			26.95
1	4																
1	5									26.93		22.75		22.75			26.93
1	5																
1	6										26.91		22.75		22.75		26.91
1	6																
1	7										26.83		22.77		22.77		26.83
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Partly cloudy 70°, calm



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-17B
Sampling Zone No(s): 4,1,3,2

WB-FTS-2

Ambient: 14.64

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/24/08

Start Time: 0745

End Time: 1200

Technicians: RH, BP

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <u>#Tubes Sample time</u>
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP () Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								44.13	40.00		40.00				44.13
3	1	✓	✓	✓	✓	✓	✓	197.8	50.62	✓	40.07	✓	40.07	✓	✓	50.62
3	2								44.11	40.00		40.00				44.13
3	2	✓	✓	✓	✓	✓	✓		50.61	✓	40.09	✓	40.09	✓	✓	50.61
3	3								44.10	39.99		39.99				44.10
3	3	✓	✓	✓	✓	✓	✓		50.58	✓	40.09	✓	40.09	✓	✓	50.58
3	4															
3	5															
3	6															
3	7															
2	1								35.95	31.39		31.39				35.95
2	1	✓	✓	✓	✓	✓	✓	179.7	41.90	✓	31.46	✓	31.46	✓	✓	41.90
2	2								35.92	31.38		31.38				35.92
2	2	✓	✓	✓	✓	✓	✓	178.1	41.89	✓	31.44	✓	31.44	✓	✓	41.89
2	3								35.90	31.39		31.39				35.90
2	3	✓	✓	✓	✓	✓	✓	178.2	41.39	✓	31.45	✓	31.45	✓	✓	41.39
2	4															
2	5															
2	6															
2	7															

Additional Comments: (pH, Turbidity, S.C., etc.)

Partly cloudy, 70°, calm



A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-24B

Sampling Zone No(s): 4,3,1,2

WP FTS-1: Magi
WD FTS-2: Probe

Ambient: 14.70

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/26/08

Start Time: 0940

End Time: 1240

Technicians: RH, GB, AC, DP

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
4	1	/	/	/	-	/	/	324.2'	53.11	51.56		51.56				53.11	
4	1	/	/	/	-	/	/		62.83	✓	51.72	✓	51.72	✓	✓	62.83	S 0945
4	2								53.07		51.55		51.55				53.07
4	2	/	/	/	/	/	/	↓	62.79	✓	51.71	✓	51.71	✓	✓	62.79	S
4	3								53.06		51.55		51.55				53.06
4	3								53.02		51.55		51.55				53.02
4	4								53.02		51.55		51.55				
4	4								53.01		51.55		51.55				53.01
5	5								53.01		51.55		51.55				
4	5								53.01		51.55		51.55				
4	6								53.01		51.55		51.55				
4	7								53.01		51.55		51.55				
3	1								44.50		42.92		42.92				44.50
3	1	✓	✓	✓	✓	✓	✓	204.2'	54.08	✓	43.08	✓	43.08	✓	✓	54.08	S 1020
3	2								44.48		42.92		42.92				44.48
3	2	/	/	/	/	/	/	204.3'	54.06	✓	43.08	-	43.08	✓	✓	54.06	S
3	3								43.48		42.91		42.91				43.48
3	3								53.01		51.55		51.55				
3	4								53.01		51.55		51.55				
3	5								53.01		51.55		51.55				
3	6								53.01		51.55		51.55				
3	7								53.01		51.55		51.55				

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, calm, 80°



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-24B
Sampling Zone No(s): 4,3,1,2

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/26/08

Start Time: 0940

End Time: 1240

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1									26.93		25.60		25.60			26.93
1	1	✓	✓	✓	✓	✓	✓	164.4	36.67	✓	25.80	✓	25.80	✓	✓	36.67	5 1050
1	2									26.90		25.60		25.60			26.90
1	2	✓	✓	✓	✓	✓	✓	↓	36.65	✓	25.79	✓	25.79	✓	✓	36.65	5
1	3									25.91		25.62		25.62			25.91
1	3																
1	4																
1	5																
1	6																
1	7																
2	1									35.57		34.25		34.25			35.57
2	1	✓	✓	✓	✓	✓	✓	184.3	45.30	✓	34.43	✓	34.43	✓	✓	45.30	5 1120
2	2									35.57		34.26		34.26			35.57
2	2	✓	✓	✓	✓	✓	✓	↓	45.28	✓	34.44	✓	34.44	✓	✓	45.28	5 ms/MSD
2	3									34.58		34.26		34.26			34.58
2	3	✓	✓	✓	✓	✓	✓	↓	45.26	✓	34.43	✓	34.43	✓	✓	45.26	5
2	4	✓	✓	✓	✓	✓	✓	184.3	45.21	✓	34.43	✓	34.43	✓	✓	45.21	5
2	5	✓	✓	✓	✓	✓	✓	184.4	45.19	✓	34.44	✓	34.44	✓	✓	45.19	5
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

FW24B-02-062608-MS/MSD taken



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-11B
Sampling Zone No(s): 3,2,4,1

Ambient: 14.64

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/26/08
Start Time: 1750
End Time: 1840
Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) <i>Tubes</i> <i>Time</i>	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								43.29		38.56		38.56				43.29
3	1	✓	✓	✓	—	✓	✓	195.5	50.29	✓	38.73	✓	38.73	✓	✓	✓	50.29 <i>S</i> 1315
3	2								43.26		38.55		38.55				43.26
3	2	✓	✓	✓	✓	✓	✓	↓	50.22	✓	38.74	✓	38.74	✓	✓	✓	50.22 <i>S</i>
3	3								42.76		38.57		38.57				42.76
3	3																
3	4																
3	5																
3	6																
3	7																
2	1								34.36		29.90		29.90				34.36
2	1	✓	✓	✓	—	—	—	175.5	40.36	✓	30.08	✓	30.08	✓	—	✓	40.36 <i>S</i> 1340
2	2								34.36		29.89		29.89				34.36
2	2	✓	✓	✓	✓	✓	✓	↓	40.36	✓	30.07	✓	30.08	✓	✓	✓	40.36 <i>S</i>
2	3								34.33		29.90		29.90				34.33
2	3																
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, 90° East
breeze, Dusty

Filterblank - 062608: 1330



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-11B
Sampling Zone No(s): 3,2,4,1

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/26/08

Start Time: 1300

End Time: 1540

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
4	1								52.12		47.21		47.21			52.12	
4	1	✓	✓	✓	✓	✓	✓	215.2	58.72	✓	47.40	✓	47.40	✓	✓	58.72	5 1420
4	2								52.09		47.21		47.21			52.09	
4	2	✓	✓	✓	✓	✓	✓	↓	58.72	✓	47.39	✓	47.40	✓	✓	58.72	5
4	3								51.10		47.21		47.21			51.10	
4	3	✓	✓	✓	✓	✓	✓	215.5	58.69	✓	47.38	✓	47.38	✓	✓	58.69	5 FW-99E-062608
4	4	✓	✓	✓	✓	✓	✓	↓	57.70	✓	47.39	✓	47.39	✓	✓	57.70	3
4	5																
4	6																
4	7																
1	1								25.41		21.22		21.22			25.41	
1	1	✓	✓	✓	✓	✓	✓	155.1	32.58	✓	21.41	✓	21.41	✓	✓	32.58	5 1520
1	2								25.40		21.22		21.22			25.40	
1	2	✓	✓	✓	✓	✓	✓	↓	32.53	✓	21.41	✓	21.41	✓	✓	32.53	5
1	3								24.90		21.22		21.22			24.90	
1	3																
1	4																
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Duplicate taken on Fw 11B-04: FW 99E-062608



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-18B
Sampling Zone No(s): 3,4,1,2

6/26/08: Ambient: 14.64

6/27/08 Ambient: 14.67

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/26/08

Start Time: 1600

End Time: 0955

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								41.35		38.67		38.67				41.35
3	1	✓	✓	✓	✓	✓	✓	1951	48.58	✓	38.75	✓	38.75	✓	✓	48.58	5' 1605
3	2								41.30		38.67		38.67				41.30
3	2	✓	✓	✓	✓	✓	✓	196.4	48.51	✓	38.74	✓	38.75	✓	✓	48.50	5'
3	3								40.31		38.66		38.66				40.31
3	3	✓	✓	✓	✓	✓	✓	196.5	47.50	✓	38.75	✓	38.75	✓	✓	47.50	3'
3	4																
3	5																
3	6																
3	7																
4	1								49.95		47.30		47.30				49.95
4	1	✓	✓	✓	✓	✓	✓	216.8	57.12	✓	47.37	✓	47.37	✓	✓	57.12	5' 0740
4	2								49.87		47.30		47.30				49.87
4	2	✓	✓	✓	✓	✓	✓		57.06	✓	47.37	✓	47.37	✓	✓	57.06	5'
4	3								48.87		47.30		47.30				48.87
4	3	✓	✓	✓	✓	✓	✓		57.00	-	47.37	✓	47.37	✓	✓	56.99	5'
4	4	✓	✓	✓	✓	✓	✓	216.1	56.95	✓	47.36	✓	47.36	✓	✓	56.95	5' MS/MID
4	5	✓	✓	-	/	/	/		56.94	✓	47.36	✓	47.36	✓	✓	56.94	5'
4	6																
4	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sulphur odor;

EBOY-062608:1630

EBOY-062608:1640



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-18B
Sampling Zone No(s): 3,4,1,2

Ambient: 14.63

Page 2 of 2

Groundwater Sampling

6/26/08

Date: 6/27/08

Start Time: 1600

End Time: 0955

Technicians: FTS

Field Data Sheet

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1								23.78		21.40			21.40			23.78
1	1	✓	✓	/	/	/	/	156.7	30.82	✓	21.47	✓	21.47	✓	✓	30.82	5 0900
1	2								23.73		21.38			21.38			23.73
1	2	/	/	/	/	/	✓	↓	30.79	✓	21.45	✓	21.45	✓	✓	30.79	5
1	3								23.66		21.37			21.37			23.66
1	3																
1	4								23.64		21.37			21.37			23.64
1	4																
1	5								23.64		21.37			21.37			23.64
1	5																
1	6																
1	7																
2	1								32.30		30.01			30.01			32.30
2	1	✓	✓	/	/	/	/	176.9	39.45	✓	30.08	✓	30.08	✓	✓	39.45	5 0940
2	2								32.30		30.02			30.02			32.30
2	2	✓	✓	/	/	/	/	176.9	39.41	✓	30.07	✓	30.07	✓	✓	39.41	5
2	3									32.26		30.02			30.02		32.26
2	3																
2	4								32.23		30.01			30.01			32.23
2	4																
2	5								32.20		29.99			29.99			32.20
2	5																
2	6									32.17		30.00			30.00		32.17
2	6																
2	7									32.16		30.01			30.01		32.16
2	7																
2	8									31.16		30.00			30.00		31.16
2	8																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sulphur odor

Fitter plant - 062708:0920

FB05-062708:1000

ERn6-062708: 1010



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-22B
Sampling Zone No(s): 1,2,4,3

Ambient: 14.64

Page 1 of 2

Groundwater Sampling Field Data Sheet

Date: 6/27/08

Start Time: 1035

End Time: 1340

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
1	1									25.29		22.22		22.22			
1	1	✓	✓	✓	✓	✓	✓	154.5	29.61	✓	22.38	✓	22.38	✓	✓	✓	29.67 5 1040
1	2									25.26		22.22		22.22			
1	2	✓	✓	✓	✓	✓	✓	154.6	29.67	✓	22.38	✓	22.38	✓	✓	✓	29.67 5
1	3									24.25		22.22		22.22			
1	3																
1	4																
1	5																
1	6																
1	7																
2	1									33.96		30.91		30.91			33.96
2	1	✓	✓	✓	✓	✓	✓	175.6	38.33	✓	31.04	✓	31.04	✓	✓	✓	38.33 5 1120
2	2									33.91		30.90		30.90			33.91
2	2	✓	✓	✓	✓	✓	✓		38.28	✓	31.01	✓	31.01	✓	✓	✓	38.28 5
2	3									33.89		30.89		30.89			33.89
2	3																
2	4																
2	5																
2	6																
2	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

6/27/08

6/27/08

New chain



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL

Monitoring Well No: FW-22B

Sampling Zone No(s): 1,2,4,3

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/27/08

Start Time: 1035

End Time: 1340

Technicians: FTS

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)						Comments (volume retrieved)				
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()		
4	1									49.11		46.05		46.05			49.11		
4	1	✓	✓	✓	✓	✓	✓	SHMCL	SHMCL	52.95	✓	46.15	✓	✓	✓	✓	52.95	4 1200	
4	2									49.09		46.05		46.05				49.09	
4	2	✓	✓	✓	✓	✓	✓		210.8'	✓	52.94	46.16	✓	46.16	✓	✓	52.94	4	
4	3									48.08		46.05		46.05				48.08	
4	3	✓	✓	✓	✓	✓	✓		211.2'	51.96	✓	46.15	✓	46.15	✓	✓	51.96	2	
4	4																		
4	5																		
4	6																		
4	7																		
3	1									42.53		39.56		39.56			42.53		
3	1	✓	✓	✓	✓	✓	✓		49.64	46.89	✓	39.68	✓	39.68	✓	✓	46.89	5 1230	
3	2									42.50		39.56		39.56				42.50	
3	2	✓	✓	✓	✓	✓	✓			46.83	✓	39.67	✓	39.67	✓	✓	46.83	5	
3	3									41.50		39.56		39.56				41.50	
3	3	✓	✓	✓	✓	✓	✓			46.78	✓	39.68	✓	39.68	✓	✓	46.78	5 Fw 99F-062708	
3	4	✓	✓	✓	✓	✓	✓			46.70	✓	39.68	✓	39.68	✓	✓	46.70	5	
3	5																		
3	6																		
3	7																		

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, calm 85°

Sulphur odor

Duplicate Fw 99F-062708 taken on Zone 3



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-16B
Sampling Zone No(s): 2,4,3,1

WB FTS-2 : Mag
WB FTS-2 : probe

6/27/08 : Ambient: 14.64

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/27/08, 6/28/08
Start Time: 1350
End Time: 1530
Technicians: RH, GB

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
2	1								37.60		35.18			35.18			37.60
2	1	✓	✓	✓	✓	✓	✓	183.0	46.65	✓	35.29	✓	35.29	✓	✓	46.65	5 1400
2	2								37.58		35.18			35.18			37.58
2	2	✓	✓	✓	✓	✓	✓		46.59	✓	35.30	✓	35.30	✓	✓	46.59	5
2	3								36.59		35.19			35.19			36.59
2	3																
2	4																
2	5																
2	6																
2	7																
4	1								54.83		52.47			52.47			54.83
4	1	✓	✓	✓	✓	✓	✓	223.7	63.92	✓	52.61	✓	52.61	✓	✓	63.92	5 1450
4	2								54.83		52.51			52.51			54.83
4	2	✓	✓	✓	✓	✓	✓		63.86	✓	52.61	✓	52.61	✓	✓	63.86	5
4	3								53.85		52.40			52.40			53.85
4	3																
4	4																
4	5																
4	6																
4	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

90° west wind 10 mph, some dust



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-16B
Sampling Zone No(s): 2,4,3,1

6/30/08: Ambient: 14.6°

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/30/08
Start Time: 0650
End Time: 0910
Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
3	1								46.25		43.84		43.84			46.25	
3	1	✓	✓	✓	✓	/	✓	204.4'	55.13	✓	43.96	✓	43.96	✓	✓	55.13	5 07/15
3	2								46.25		43.84		43.84			46.25	
3	2	✓	/	/	/	/	/	204.5'	55.11	✓	43.96	✓	43.96	✓	/	55.11	5
3	3								46.21		43.85		43.85			46.21	
3	3	/	/	/	/	/	/	204.5	55.06	✓	43.96	✓	43.96	✓	✓	55.06	5
3	4								46.21		43.85		43.85			46.21	
3	4	✓	/	/	/	/	/	204.5	55.06	✓	43.96	✓	43.96	✓	✓	54.51	4 FW 996-063008? 2000
3	5								46.17		43.85		43.85			46.17	
3	5								54.51								
3	6								46.19		43.85		43.85			46.19	
3	6								MIN								Sulphur odor
3	7								6/30/08	46.18	43.85		43.85			46.18	
3	7																
1	1								28.47		26.54		26.54			28.47	
1	1	✓	✓	✓	✓	✓	✓	164.7'	37.60	✓	26.66	✓	26.66	✓	✓	37.60	5 0830
1	2								28.45		26.54		26.54			28.45	
1	2	✓	✓	✓	✓	✓	✓	164.7	37.57	✓	26.66	✓	26.66	✓	✓	37.57	5
1	3								27.47		26.53		26.54			27.47	
1	3																
1	4																
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Partly cloudy, calm 70's

Duplicate FW 996-063008 taken on Zone 3



A Schlumberger Company

Project: Gainesville, FL
 Monitoring Well No: FW-21B
 Sampling Zone No(s): 3,4,2,1

WBFTS-2 : Magi
 WD-FTS-2 : Probe

Ambient 114.65

Page 1 of 2

Groundwater Sampling

Field Data Sheet

Date: 6/30/08

Start Time: 0915

End Time: 1400

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)						Comments (volume retrieved) Tubes Time		
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
3	1								42.40		39.23		39.23				42.40
3	1	✓	✓	✓	✓	✓	✓	194.8	45.97	✓	39.34	✓	39.34	✓	✓	✓	45.96 5 0940
3	2								42.36		39.23		39.23				42.36
3	2	✓	✓	✓	✓	✓	✓	194.9	45.90	✓	39.37	✓	39.33	✓	✓	✓	45.90 5
3	3								42.33		39.23		39.23				42.33
3	3																Sulphur odor
3	4								42.28		39.22		39.22				42.28
3	4																
3	5								42.25		39.23		39.23				42.25
3	5																
3	6																
3	7																
4	1								51.35		47.86		47.86				51.35
4	1	✓	✓	✓	✓	✓	✓	215.0'	54.49	✓	47.98	✓	47.98	✓	✓	✓	54.49 5 1020
4	2								51.29		47.86		47.86				51.29
4	2	✓	✓	✓	✓	✓	✓	215.2'	54.39	✓	47.98	✓	47.98	✓	✓	✓	54.39 5
4	3								50.28		47.87		47.87				50.28
4	3																
4	4																Sulphur odor
4	5																
4	6																
4	7																
4	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

Sunny, slight west breeze,
 truck traffic



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-21B
Sampling Zone No(s): 3,4,2,1

Page 2 of 2

Groundwater Sampling Field Data Sheet

Date: 6/30/08

Start Time: 0915

End Time: 1400

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	
2	1								33.88		30.56		30.56				33.88
2	1	✓	✓	✓	✓	✓	✓	-	175.3	36.91	✓	30.69	✓	30.69	✓	✓	36.91
2	2								33.84		30.56		30.56				33.84
2	2	✓	✓	✓	✓	✓	✓	175.3	36.86	✓	30.68	✓	30.68	✓	✓	✓	36.86
2	3								32.84		30.54		30.54				32.84
2	3	✓	✓	✓	✓	✓	✓	175.3	36.83	✓	30.69	✓	30.69	✓	✓	✓	36.83
2	4	✓	✓	✓	✓	✓	✓	175.3	36.79	✓	30.69	✓	30.69	✓	✓	✓	36.79
2	5	✓	✓	✓	✓	✓	✓	175.3	36.76	✓	30.69	✓	30.69	✓	✓	✓	36.76
2	6	✓	✓	✓	✓	✓	✓	175.3	35.77	✓	30.69	✓	30.69	✓	✓	✓	35.77
2	7																sulphur odor
1	1								24.85		21.97		21.97				24.85
1	1	✓	✓	✓	✓	✓	✓	155.2	28.00	✓	22.03	✓	22.03	✓	✓	✓	28.00
1	2								24.82		21.92		21.92				24.82
1	2	✓	✓	✓	✓	✓	✓	155.3	28.00	✓	22.03	✓	22.03	✓	✓	✓	28.00
1	3								24.34		21.92		21.92				24.34
1	3																sweet
1	4																organic odor
1	5																
1	6																
1	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

FB-06-063008
taken at FW21B: 1230

Sunny SW wind 5-10 mph; some dust
MS(MSD) taken on zone 2



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-20B
Sampling Zone No(s): 3,4,2,1

WB FTS-1 : Mag.

WB FTS-2 : Probe

6/30/08: Ambient : 14.6 °

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Groundwater Sampling

Field Data Sheet

Date: 6/30/08, 7/1/08

Start Time: 1700

End Time: 1920

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
3	1							42.16		39.51		39.51			42.16	
3	1	✓	✓	✓	✓	✓	✓	197.7	51.09	✓	39.64	✓	39.64	✓	✓	51.05 5 1730
3	2							42.14		39.51		39.51			42.14	
3	2	✓	✓	✓	✓	✓	✓	197.9	50.50	✓	39.64	✓	39.64	✓	✓	50.50 4
3	3							41.15		39.51		39.51			51.31	
3	3															
3	4															
3	5															
3	6															
3	7															
4	1							51.05		48.14		48.14			51.05	
4	1	✓	✓	✓	✓	✓	✓	217.7	59.56	✓	48.28	✓	48.28	✓	✓	59.56 5 1800
4	2								51.01		48.15		48.15			51.01
4	2	✓	✓	✓	✓	✓	✓	217.9	59.02	✓	48.27	✓	48.27	✓	✓	59.02 4
4	3								50.05		48.14		48.14			50.05
4	3															
4	4								50.96		48.14		48.14			50.96
4	4															
4	5								50.92		48.15		48.15			50.92
4	5															
4	6								50.89		48.15		48.15			50.89
4	6															
4	7															

Additional Comments: (pH, Turbidity, S.C., etc.)

cloudy 80°; calm



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-20B
Sampling Zone No(s): 3,4,2,1

7/1/08 Ambient + = 14.6°

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Groundwater Sampling Field Data Sheet

Date: 6/30/08 / 7/1/08

Start Time: 1700 - 1920

End Time: 0840

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes		
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()		
6/30/08	2 1								33.43		30.87		30.87				33.43		
	2 1	✓	✓	-	✓	-	✓	178.2	42.12	✓	30.99	✓	30.99	✓	/	42.12	5 1840		
	2 2								33.40		30.87		30.87				33.40		
	2 2	✓	✓	✓	✓	✓	✓	178.6	42.06	✓	30.99	✓	30.99	✓	/	42.06	5		
	2 3								33.39		30.67		30.67				33.39		
	2 3																		
	2 4								33.37		30.86		30.86				33.37		
	2 4																		
	2 5																		
	2 6							6/30/08											
	2 7																		
7/1/08	1 1								24.66		22.22		22.22				24.66		
	1 1	✓	✓	✓	✓	✓	✓	156.9	33.40	✓	22.33	✓	22.33	✓	✓	33.40	5 0730		
	1 2								24.65		22.22		22.22				24.65		
	1 2	✓	✓	✓	✓	✓	✓	156.9	33.37	✓	22.34	✓	22.34	✓	/	33.37	5		
	1 3								23.64		22.23		22.23				23.64		
	1 3																		
	1 4																	strong sweet organic odor	
	1 5																		
	1 6																		
	1 7																		

Additional Comments: (pH, Turbidity, S.C., etc.)

Cloudy, 72°, calm

EB 07-063008 : 1920
taken after decom of zone 2

MK
7/1/08

EP07-0620
68



Westbay
Instruments Inc.

A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-12B
Sampling Zone No(s): 2,1,4,3

WB FTS 1&2

Ambient: 14.62

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Groundwater Sampling Field Data Sheet

Date: 7/1/08

Start Time: 0900

End Time: 1320

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)							Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved) Tubes Time	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate port () Arm out () Land probe ()		Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()	
2	1								32.54		30.04			30.04			32.54	
2	1	✓	✓	✓	✓	✓	✓	175.9'	37.22	✓	30.16	✓	30.16	✓	✓	✓	37.22	5 0910
2	2								32.49		30.05			30.05			32.49	
2	2	✓	✓	✓	✓	✓	✓	175.8'	37.19	—	30.16	✓	30.16	✓	✓	✓	37.19	5
2	3								31.99		30.05			30.05			31.99	
2	3																	
2	4																	Filter blank - 070108: 0930
2	5																	
2	6																	
2	7																	
1	1								23.73		21.39			21.39			23.73	
1	1	✓	✓	—	—	✓	✓	155.6'	28.46	✓	21.51	✓	21.51	✓	✓	✓	28.46	5 0950
1	2								23.12		21.41			21.41			23.12	
1	2	✓	✓	✓	✓	✓	✓	155.6'	28.43	✓	21.51	✓	21.51	✓	✓	✓	28.43	5
1	3								23.11		21.42			21.42			23.11	
1	3																	
1	4								22.59		21.42			21.42			22.59	
1	4																	
1	5																	
1	6																	
1	7																	

Additional Comments: (pH, Turbidity, S.C., etc.)

Partly cloudy Filter blank - 070108: 0930

SW breeze 5-10 mph; woodchipper running nearby, heavy truck traffic



A Schlumberger Company

Project: Gainesville, FL
Monitoring Well No: FW-12B
Sampling Zone No(s): 2,1,4,3

Page 2 of 2

Groundwater Sampling

Field Data Sheet

Date: 7/1/08

Start Time: 0900

End Time: 1320

Technicians: RH

Zone No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler	Sampling Collection Checks (probe located at sampling zone in MP casing)							Comments (volume retrieved)	
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve		Locate port () Arm out () Land probe ()	Pressure in MP ()	Shoe Out	Zone Pressure ()	Open Valve	Zone Pressure ()	Close Valve	Shoe In	Pressure in MP ()
4	1								49.01		47.36		47.36				49.01
4	1	✓	✓	✓	✓	✓	✓	278.3	54.45	✓	47.46	✓	47.46	✓	✓	✓	54.45
4	2								48.97		47.37		47.37				48.97
4	2	✓	✓	✓	✓	✓	✓	↓	53.90	✓	47.45	✓	47.45	✓	✓	✓	53.90
4	3								48.94		47.37		47.37				48.97
4	3																
4	4								48.95		47.37		47.37				48.95
4	4																
4	5								48.95		47.37		47.37				48.95
4	5																
4	6																
4	7																
3	1								40.46		38.78		38.78				40.46
3	1	✓	✓	✓	✓	✓	✓	195.3	45.66	✓	38.80	✓	38.80	✓	✓	✓	45.66
3	2								40.42		38.76		38.76				40.42
3	2	✓	✓	✓	✓	✓	✓	195.1	45.61	✓	38.80	✓	38.80	✓	✓	✓	45.61
3	3								39.43		38.77		38.77				39.43
3	3	✓	✓	✓	✓	✓	✓	194.8	45.54	✓	38.81	✓	38.81	✓	✓	✓	45.54
3	4	✓	✓	✓	✓	✓	✓	195.0	44.50	✓	38.80	✓	38.80	✓	✓	✓	44.50
3	5																
3	6																
3	7																

Additional Comments: (pH, Turbidity, S.C., etc.)

EB08-070108:1350

Duplicate taken in Zone 3 : FW99H-070108:2000
FB07-070108:1340

FW99H-070108:
2000

Strong sweet
organic odor

ATTACHMENTS B-1 AND B-2

ANALYTICAL LABORATORY REPORTS

