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Subject:

Koppers Inc. Superior, WI Facility – Summary of Supplemental Groundwater Investigations

INDUSTRIAL

Dear Mr. Hosch:

This letter summarizes the scope and findings of supplemental groundwater investigation activities that were conducted by Beazer East, Inc. (Beazer) at the Koppers Inc. Superior, Wisconsin Facility (the Site) between October 2006 and June 2007. The scope of work for these investigations was presented in a letter from ARCADIS BBL to the Wisconsin Department of Natural Resources (WDNR) dated September 26, 2006¹, and included the following activities, which were discussed with and agreed to at a September 12, 2006 project meeting in Superior:

Date:

September 18, 2007

Contact:

Jeffrey S. Holden

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Our ref:

B0039075.0000.00002

- Installation of six new A-zone monitoring wells
- Installation of one surface water gauge in the fire pond
- Two rounds of water-level measurements at the new and existing A-zone wells and the new surface water gauge
- Collection and laboratory analysis of two rounds of groundwater samples from the six new monitoring wells and five other existing wells

As discussed at the September 12, 2006 meeting, the purpose of these groundwater investigation activities was to supplement the groundwater natural attenuation investigation/evaluation activities conducted in 2004 and 2005², and to provide

¹ Jim Hosch (WDNR) provided verbal approval of the September 26, 2006 Work Plan during a telephone conversation with Jeffrey Holden (ARCADIS BBL) on October 2, 2006.

² The 2004 and 2005 groundwater natural attenuation investigation/evaluation activities were summarized in a letter report submitted to the WDNR on January 24, 2006 ("Groundwater Natural Attenuation Evaluation Report").

additional data to refine the delineation of certain constituents in shallow groundwater to further support WDNR's approval of a natural attenuation remedy for groundwater at the Site.

Monitoring Well Installation

Six new A-zone monitoring wells, W-35A through W-40A, were installed at the Site on October 11 and 12, 2007. The wells were drilled and installed by Boart Longyear Company (Boart Longyear) of Schofield, Wisconsin using hollow-stem augers. The wells were installed to depths of approximately 13 feet below grade, and are constructed of 2-inch diameter PVC casings with 10-foot long, 0.01-inch slotted PVC screens. Following installation, the wells were developed by pumping/bailing water from the wells and surging the well screens. In addition, the locations and measuring point (top of inner PVC casing) elevation of each new well were surveyed. The surveyed locations of the new and existing monitoring wells are shown on Figure 1 and the surveyed coordinates and elevations are included on the boring/well construction logs in Attachment 1. With the exception of W-37A and W-39A, all of the new wells were installed in the locations proposed in the September 26, 2006 Work Plan. The proposed location of W-37A was inaccessible due to the presence of a building foundation, and the well location was moved approximately 60 feet to the southwest. The proposed location of W-39A was inaccessible due to the presence of thick brush and soft ground (low-lying/wetland area), and the well location was moved approximately 150 feet to the south/southeast.

Boring/well construction logs are provided in Attachment 1. In addition, WDNR Forms 4400-122 (Soil Boring Log Information), 4400-113A (Monitoring Well Construction), 4400-113B (Monitoring Well Development) and 4400-89 (Groundwater Monitoring Well Information) are provided in Attachment 2.

Surface Water Gauge Installation

The surface water gauge was installed in the fire pond on October 9, 2006. The gauge is a steel post driven into the bottom of the pond. Following installation, the location and measuring point (top of steel post) elevation of the surface water gauge were surveyed. The surveyed surface water gauge location is shown on Figure 1 and the measuring point elevation is provided in Table 1.

Water-Level Monitoring

Water-level measurements were obtained at the new and existing A-zone monitoring wells and the new surface water gauge on October 22, 2006, April 11, 2007 and June 4, 2007. The water-level measurements and associated groundwater/surface water elevations are summarized in Table 1. Groundwater elevation contour maps created based on the April 11 and June 4, 2007 water-level data are provided as Figures 2 and 3, respectively. The October 22, 2006 water-level data were not contoured because water levels at certain of the new A-zone monitoring wells had not yet fully recovered following installation.

As indicated on Figures 2 and 3, and consistent with historical groundwater contour maps, the general A-zone groundwater flow direction at the Site is to the north (i.e., A-zone groundwater elevations at the northern end of the Site are consistently lower than elevations at the southern end of the Site). However, groundwater flow patterns in the A zone indicate localized variability to the overall northerly flow because of the combined effects of low hydraulic conductivity of the clay, perched groundwater, and interactions with surface-water drainage ditches. The localized A-zone groundwater flow patterns are also inconsistent over time.

Groundwater Sampling and Analysis

In accordance with the September 26, 2006 Work Plan, Field & Technical Services, LLC (FTS) collected two rounds of groundwater samples from the following new and existing monitoring wells: W-14A, W-16, W-17A, W-25A, W-26A, W-35A, W-36A, W-37A, W-38A, W-39A and W-40A (Figure 1). Sampling was conducted in October 2006, April 2007, and June 2007. During the October 2006 sampling event, wells W-35A and W-40A were dry and the sample collected from W-37A was mistakenly not analyzed by the lab; accordingly, these three wells were sampled in April and June 2007. The remaining wells were sampled in October 2006 and April 2007.

Groundwater samples were analyzed by Severn Trent Laboratories (STL) for benzene (Method 8021B), polycyclic aromatic hydrocarbons (PAH) and phenolics (Method 8270C), and/or polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDDs/PCDFs; Method 8290). Table 2 summarizes the analytical scope of work for each well during each sampling event.

The October 2006 to June 2007 supplemental analytical data are summarized in Table 3 (benzene, PAHs and phenolics) and Table 4 (PCDDs/PCDFs). Laboratory analytical data sheets and are provided in Attachment 3.

To help evaluate the data, Table 3 includes calculated values for total PAHs and total phenolics, and Table 4 includes calculated values for 2,3,7,8-TCDD toxicity equivalent (TEQ)³. The tables also compare the data to WDNR Preventive Action Limits (PALs) and Enforcement Standards (ESs). Based on the data presented in Tables 3 and 4, the following table summarizes the PAL and ES exceedances for the October 2006 to June 2007 supplemental groundwater sample data:

Constituent	PAL/ES (ug/L)	Wells Exceeding PAL/ES
Benzene	PAL: 0.5	W-16A
	ES: 5	W-16A
Benzo(a)pyrene	PAL: 0.02	W-17A, W-38A
	ES: 0.2	W-17A
Benzo(b)fluoranthene	PAL: 0.02	W-17A, W-36A, W-38A
	ES: 0.2	W-17A, W-38A
Chrysene	PAL: 0.02	W-17A, W-36A, W-38A, W-40A
	ES: 0.2	W-17A
Naphthalene	PAL: 10	W-17A
	ES: 100	None
Pentachlorophenol	PAL: 0.1	W-14A, W-36A, W-37A, W-40A
	ES: 1	W-14A, W-36A
2,3,7,8-TCDD TEQ ⁴	PAL: 0.000003	W-16A, W-25A, W-26A, W-35A, W-36A
	ES: 0.00003	W-16A, W-25A

To evaluate the delineation of constituents in shallow groundwater, isoconcentration maps were prepared for benzene, naphthalene, total PAHs, pentachlorophenol, and 2,3,7,8-TCDD TEQ using the maximum values detected in samples collected from A

³ 2,3,7,8-TCDD TEQs calculated using the World Health Organization (WHO) 2005 toxic equivalency factors (TEFs).

⁴ Note that the PAL and ES listed for 2,3,7,8-TCDD TEQ is actually for 2,3,7,8 TCDD; however, as previously requested by WDNR, 2,3,7,8-TCDD TEQ values are also being compared to the 2,3,7,8 TCDD PAL and ES. There were no detections of 2,3,7,8-TCDD in any of the October 2006 to June 2007 supplemental groundwater samples.

zone wells between April 2004 and June 2007 (Table 5). The isoconcentration maps are provided as Figure 4 (benzene), Figure 5 (naphthalene), Figure 6 (total PAHs), Figure 7 (pentachlorophenol), and Figure 8 (2,3,7,8-TCDD TEQ). Each isoconcentration map is discussed below.

- **Benzene (Figure 4)** – Benzene concentrations above the ES (5 ug/L) were detected at wells W-10AR2 and W-30A in the Closed Surface Impoundments Area and at well W-16A in the Former Treatment Area. In the Closed Surface Impoundments Area, benzene is delineated to the north (predominant downgradient direction), east, south and west by non-detect levels at wells W-26A, W-06A, W-04AR and W-12A, respectively. In the Former Treatment Area, benzene is delineated to the northeast and southwest by non-detect benzene levels at wells W-35A and W-26A, respectively.
- **Naphthalene (Figure 5)** – Naphthalene concentrations above the ES (100 ug/L) were detected at wells W-10AR2 and W-30A in the Closed Surface Impoundments Area and at well W-16A in the Former Treatment Area. In the Closed Surface Impoundments Area, naphthalene is delineated to the north (predominant downgradient direction), east and west by non-detect naphthalene levels at wells W-26A, W-06A and W-12A, respectively, and to the south by a maximum naphthalene concentration of 0.14 ug/L at well W-04AR. In the Former Treatment Area, naphthalene is delineated to the northeast and southwest by non-detect naphthalene levels at wells W-35A and W-26A, respectively, and to the south by a maximum naphthalene concentration of 0.02 ug/L at well W-20AR.
- **Total PAHs (Figure 6)** – Total PAH concentrations above 1 ug/L were detected at wells W-38A in the Straw Bales Area, wells W-14A and W-36A in the Former Unlined Landfill/Landfarm Area, wells W-10AR2 and W-30A in the Closed Surface Impoundments Area, and wells W-16A and W-17A in the Former Treatment Area. In the Straw Bales Area, total PAHs are delineated to the north (predominant downgradient direction) by a maximum total PAH concentration of 0.08 ug/L at well W-37A, and to the south by maximum total PAH concentrations of 0.87 ug/L, 0.12 ug/L and 0.13 ug/L at wells W-25A, W-38A and W-40A, respectively. In the Former Unlined Landfill/Landfarm Area, total PAHs are delineated to the northwest (predominant downgradient direction) by a maximum total PAH concentration of 0.4 ug/L at well W-04AR, and to the southwest by a maximum total PAH concentration of 0.08 ug/L at well W-37A. In the Closed Surface Impoundments Area, total PAHs are delineated to the north (predominant downgradient direction),

east, west and south by maximum PAH concentrations of 0.03 ug/L, 0.9 ug/L, 0.9 ug/L and 0.4 ug/L at wells W-26A, W-06A, W-12A and W-04AR, respectively. In the Former Treatment Area, total PAHs are delineated to the northeast, south and southwest by maximum total PAH concentrations of 0.08 ug/L, 0.19 ug/L and 0.03 ug/L at wells W-35A, W-20AR and W-26A, respectively.

- **Pentachlorophenol (Figure 7)** – Pentachlorophenol concentrations above the ES (1 ug/L) were detected at well W-25A in the Straw Bales Area, wells W-14A and W-36A in the Former Unlined Landfill/Landfarm Area, well W-04AR between the Former Unlined Landfill/Landfarm Area and the Closed Surface Impoundments Area, and well W-10AR2 in the Closed Surface Impoundments Area. In the Straw Bales Area, pentachlorophenol is delineated to the north (predominant downgradient direction) and south by maximum pentachlorophenol concentrations of 0.93 ug/L and 0.44 ug/L at wells W-37A and W-40A, respectively, and to the northwest and southwest by non-detect levels of pentachlorophenol at wells W-38A and W-39A, respectively. In the Former Unlined Landfill/Landfarm Area, pentachlorophenol is delineated to the northwest (predominant downgradient direction) by well W-04AR (where the maximum pentachlorophenol concentration was 2.4 ug/L, but five the six samples collected in 2004 to 2007 were non-detect), and to the southwest by a maximum pentachlorophenol concentration of 0.93 ug/L at well W-37A. In the Closed Surface Impoundment Areas, pentachlorophenol is delineated to the north (predominant downgradient direction) and east by maximum pentachlorophenol concentrations of 0.24 ug/L and 0.1 ug/L at wells W-W-30A and W-6A, respectively, to the west by non-detect levels of pentachlorophenol at well W-12A, and to the south by well W-04AR (where the maximum pentachlorophenol concentration was 2.4 ug/L, but five the six samples collected in 2004 to 2007 were non-detect). Pentachlorophenol was not detected at any of the five wells sampled in the Former Treatment Area.
- **2,3,7,8-TCDD TEQ (Figure 8)** – 2,3,7,8-TCDD TEQs above the ES (3×10^{-5} ug/L) were detected at well W-25A in the Straw Bales Area, well W-30A in the Closed Surface Impoundments Area, and well W-16A in the Former Treatment Area. In the Straw Bales Area, PCDDs/PCDFs are delineated to the southwest, north (predominant downgradient direction) and northeast by maximum 2,3,7,8-TCDD TEQs of 2.7×10^{-7} ug/L, 3.0×10^{-9} ug/L and 7.9×10^{-7} ug/L at wells W-39A, W-04AR and W-14A, respectively. In the Closed Surface Impoundments Area, PCDDs/PCDFs are delineated to the north (predominant downgradient direction), east, south and west by 2,3,7,8-TCDD TEQs of 3.3×10^{-6} ug/L, 2.5×10^{-6} ug/L, 2.8×10^{-6} ug/L and 1.3×10^{-7} ug/L at wells W-26A, W-6A, W-10AR2 and W-12A,

respectively. In the Former Treatment Area, PCDDs/PCDFs are delineated to the northeast and southwest by 2,3,7,8-TCDD TEQs of 4.6×10^{-6} ug/L and 3.3×10^{-6} ug/L at wells W-35A and W-26A, respectively.

Mann-Kendall trend analysis tests for well W-14A presented in the January 2006 Groundwater Natural Attenuation Evaluation Report indicated no trend/non-stable conditions for naphthalene and pentachlorophenol. In accordance with an April 27, 2006 letter to the WDNR, the additional sample data collected at W-14A in October 2006 and April 2007 were used to further evaluate constituent trends at this well. The Mann-Kendall tests for the July 2004 through April 2007 dataset for naphthalene and pentachlorophenol at well W-14A are presented in Attachment 4 and indicate no trend/stable conditions for naphthalene and no trend/non-stable conditions for pentachlorophenol. Note that naphthalene has only been detected in one of the last six samples at W-14A, and the detected concentration of 0.3 ug/L is well below the PAL of 10 ug/L. To supplement the Mann-Kendall test for pentachlorophenol at W-14A, a concentration versus time plot was generated for the July 2004 through April 2007 dataset and is also included in Attachment 4. The linear regression line shown on the graph in Attachment 4 indicates a decreasing pentachlorophenol trend at W-14A. Regardless of the pentachlorophenol trend at W-14A, as shown on Figure 7 and as discussed above, the extent of pentachlorophenol above the ES (1 ug/L) in shallow groundwater at the Site has been delineated in the predominant downgradient direction.

Conclusions

The supplemental groundwater investigations conducted between October 2006 and June 2007 provided additional data to delineate the downgradient extents of benzene, PAHs, pentachlorophenol, and PCDDs/PCDFs in shallow groundwater at the Site. These data, combined with data from the groundwater natural attenuation investigation/evaluation activities conducted in 2004 and 2005 (which, based on concentration trends, geochemical indicator parameters, and microbiological indicator parameters, concluded that natural attenuation of constituents of potential concern in groundwater at the Site was occurring), provides a robust set of scientific data that supports the suitability of a natural attenuation remedy for groundwater at the Site.

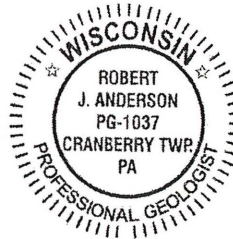
We trust that the information provided in this letter report, along with previous submittals, provides sufficient technical justification for WDNR's approval of the groundwater natural attenuation remedy presented in the Focused Corrective Measures Study (ARCADIS BBL, July 2007). If you have any questions or comments regarding the information presented herein, please contact Jeffrey Holden of ARCADIS BBL (860.645.1084, ext. 12) or Jane Patarcity of Beazer (412.208.8813).

Sincerely,

ARCADIS U.S., Inc.



Robert J. Anderson
Vice President
WI PG-1037



Copies:

- John Robinson, WDNR
- Mark Gordon, WDNR
- James Ross, WDNR
- Bob Egan, USEPA
- Vicki Drake, Douglas County
- Leslie Hyde/Steve Willis, Koppers
- Jane Patarcity, Beazer
- Jeffrey Holden/David Bessingpas, ARCADIS BBL
- Mark Thimke, Foley & Lardner
- Mark King, Groundwater Insight

Tables

Table 1
Summary of A Zone Water-Level Measurements

Koppers Inc. Facility
Superior, Wisconsin

Well ID	Top of Inner Casing Elevation (feet AMSL)	October 22, 2006		April 11, 2007		June 4, 2007	
		Depth to Water (feet)	Water Elev. (feet AMSL)	Depth to Water (feet)	Water Elev. (feet AMSL)	Depth to Water (feet)	Water Elev. (feet AMSL)
W-04AR	676.24	6.05	670.19	3.35	672.89	4.08	672.16
W-06A	673.31	11.55	661.76	11.40	661.91	3.46	669.85
W-08A	676.05	8.13	667.92	3.07	672.98	2.91	673.14
W-10AR2	676.90	Not recorded	—	11.69	665.21	10.36	666.54
W-11A	676.45	5.38	671.07	7.67	668.78	4.62	671.83
W-12A	677.07	8.69	668.38	9.88	667.19	5.35	671.72
W-14A	676.60	5.57	671.03	6.11	670.49	4.62	671.98
W-16A	674.42	3.35	671.07	5.52	668.90	2.91	671.51
W-17A	674.29	2.32	671.97	Not measured - ice present at 2.02 feet		1.85	672.44
W-19A	675.57	9.33	666.24	3.73	671.84	4.36	671.21
W-20AR	674.01	11.38	662.63	4.75	669.26	5.40	668.61
W-21A	673.85	11.50	662.35	7.44	666.41	3.94	669.91
W-25A	675.91	2.88	673.03	5.10	670.81	3.61	672.30
W-26A	673.49	10.39	663.10	11.86	661.63	3.38	670.11
W-29A	673.30	1.95	671.35	3.38	669.92	1.17	672.13
W-30A	676.40	8.55	667.85	7.20	669.20	3.99	672.41
W-35A	675.30	Dry	—	13.20	662.10	6.85	668.45
W-36A	678.59	4.57	674.02	8.38	670.21	4.65	673.94
W-37A	676.67	8.86	667.81	9.01	667.66	3.75	672.92
W-38A	676.90	10.30	666.60	6.92	669.98	3.38	673.52
W-39A	678.53	12.98	665.55	6.32	672.21	5.16	673.37
W-40A	676.94	17.73	659.21	6.71	670.23	3.59	673.35
Fire Pond*	675.44	3.35	672.09	2.70	672.74	3.02	672.42

Notes:

AMSL = above mean sea level

* = surface water gauge

Table 3
Summary of 2006-2007 VOC and SVOC Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-14A 10/23/06	W-14A 04/16/07	W-16A 10/23/06	W-16A 04/17/07	W-17A 10/24/06	W-17A 04/17/07	W-26A 10/24/06	W-26A 04/16/07
Benzene	5	0.5	ug/L	NA	NA	110	82.0	NA	NA	0.206 U	0.730 U
2,3,4,6-Tetrachlorophenol	--	--	ug/L	0.130 J	0.560 J	NA	NA	3.10 U	2.70 U	0.157 U	0.530 U
2,3,5,6-Tetrachlorophenol	--	--	ug/L	1.67 U	0.820 J	NA	NA	33.3 U	7.30 U	1.67 U	1.50 U
2,4,5-Trichlorophenol	--	--	ug/L	0.0320 J	0.370 U	NA	NA	2.03 U	1.80 U	0.0999 U	0.370 U
2,4,6-Trichlorophenol	--	--	ug/L	0.0833 U	0.0900 U	NA	NA	1.67 U	0.430 U	0.0833 U	0.0900 U
2,4-Dichlorophenol	--	--	ug/L	0.290 J	0.190 J	NA	NA	1.50 U	0.250 U	0.0733 U	0.0500 U
2,4-Dimethylphenol	--	--	ug/L	1.80 U	1.10 U	NA	NA	34.0 J	8.90	1.80 U	1.10 U
2,4-Dinitrophenol	--	--	ug/L	0.699 U	5.00 U	NA	NA	14.0 U	24.0 U	0.699 U	5.00 U
2-Chlorophenol	--	--	ug/L	0.0932 U	0.0530 U	NA	NA	1.90 U	0.270 U	0.0932 U	0.0530 U
2-Methylphenol	--	--	ug/L	1.50 U	0.470 U	NA	NA	120	14.0	1.50 U	0.470 U
2-Nitrophenol	--	--	ug/L	0.127 U	0.0870 U	NA	NA	2.50 U	0.430 U	0.127 U	0.0900 U
4,6-Dinitro-2-Methylphenol	--	--	ug/L	0.799 U	0.400 U	NA	NA	16.0 U	2.10 U	0.799 U	0.400 U
4-Chloro-3-Methylphenol	--	--	ug/L	0.0799 U	0.0700 U	NA	NA	1.63 U	0.370 U	0.0799 U	0.0700 U
4-Methylphenol	--	--	ug/L	1.27 U	0.530 U	NA	NA	190	5.70	1.27 U	0.530 U
4-Nitrophenol	--	--	ug/L	1.47 U	4.33 U	NA	NA	29.3 U	21.0 U	1.47 U	4.30 U
Pentachlorophenol	1	0.1	ug/L	0.660 J	1.90	NA	NA	4.00 U	1.50 U	0.203 U	0.300 U
Phenol	6,000	1,200	ug/L	0.0810 J	0.0930 U	NA	NA	170	2.00 J	0.183 U	0.0930 U
Total Phenolics	--	--	ug/L	1.19 J	3.47 J	NA	NA	514 J	30.6 J	ND	ND
Acenaphthene	--	--	ug/L	0.0250 J	0.0190 J	NA	NA	91.0 J	130	0.0699 U	0.0430 U
Acenaphthylene	--	--	ug/L	0.127 U	0.0290 J	NA	NA	2.53 U	2.30 J	0.127 U	0.0400 U
Anthracene	3,000	600	ug/L	0.260 J	0.390 J	NA	NA	7.00 J	7.20	0.0999 U	0.0300 J
Benzo(a)anthracene	--	--	ug/L	0.193 U	0.0490 J	NA	NA	4.00 U	2.00 J	0.193 U	0.120 U
Benzo(a)pyrene	0.2	0.02	ug/L	0.103 U	0.0770 U	NA	NA	2.06 U	0.720 J	0.103 U	0.0770 U
Benzo(b)fluoranthene	0.2	0.02	ug/L	0.127 U	0.130 U	NA	NA	2.50 U	0.980 J	0.127 U	0.130 U
Benzo(g,h,i)perylene	--	--	ug/L	0.0999 U	0.0390 J	NA	NA	2.00 U	0.150 J	0.0999 U	0.0730 U
Benzo(k)fluoranthene	--	--	ug/L	0.160 U	0.120 U	NA	NA	3.20 U	0.520 J	0.160 U	0.120 U
Chrysene	0.2	0.02	ug/L	0.0999 U	0.0670 U	NA	NA	2.00 U	2.00 J	0.0999 U	0.0670 U
Dibenzo(a,h)anthracene	--	--	ug/L	0.0633 U	0.0870 U	NA	NA	1.27 U	0.430 U	0.0633 U	0.0870 U
Fluoranthene	400	80	ug/L	0.230 J	0.110 J	NA	NA	7.60 J	21.0	0.110 U	0.0530 U
Fluorene	400	80	ug/L	0.0899 U	0.0190 J	NA	NA	38.0 J	40.0	0.0899 U	0.0370 U
Indeno(1,2,3-cd)pyrene	--	--	ug/L	0.0699 U	0.0290 J	NA	NA	1.40 U	0.150 J	0.0699 U	0.0470 U
Naphthalene	100	10	ug/L	0.0733 U	0.0770 U	NA	NA	79.0	7.30	0.0733 U	0.0770 U
Phenanthrene	--	--	ug/L	0.0470 J	0.0190 J	NA	NA	27.0 J	15.0	0.110 U	0.0500 U
Pyrene	250	50	ug/L	0.280 J	0.170 J	NA	NA	3.40 J	15.0	0.147 U	0.160 U
Total PAHs	--	--	ug/L	0.842 J	0.873 J	NA	NA	253 J	244 J	ND	0.0300 J

See Notes on Page 4

Table 3
Summary of 2006-2007 VOC and SVOC Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-35A 04/17/07	W-35A 06/13/07	W-36A 10/24/06	W-36A 04/17/07	W-37A 04/17/07	W-37A 06/13/07
Benzene	5	0.5	ug/L	0.730 U	0.733 U [0.733 U]	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	--	--	ug/L	0.530 U	0.599 U [0.533 U]	3.40 J	22.0 J [34.0 J]	0.530 U	0.533 U
2,3,5,6-Tetrachlorophenol	--	--	ug/L	1.50 U	1.60 U [1.47 U]	3.33 U	4.70 J [5.10 J]	1.50 U	1.47 U
2,4,5-Trichlorophenol	--	--	ug/L	0.370 U	0.400 U [0.366 U]	0.240 J	3.70 U [2.20 J]	0.370 U	0.366 U
2,4,6-Trichlorophenol	--	--	ug/L	0.0900 U	0.0966 U [0.0899 U]	0.280 J	1.10 J [1.50 J]	0.0900 U	0.0899 U
2,4-Dichlorophenol	--	--	ug/L	0.0500 U	0.0533 U [0.0500 U]	1.30 J	0.500 U [0.500 U]	0.0500 U	0.0500 U
2,4-Dimethylphenol	--	--	ug/L	1.10 U	1.17 U [1.10 U]	3.66 U	11.0 U [11.0 U]	1.10 U	1.10 U
2,4-Dinitrophenol	--	--	ug/L	5.00 U	5.33 U [5.00 U]	1.40 U	50.0 U [50.0 U]	5.00 U	5.00 U
2-Chlorophenol	--	--	ug/L	0.0530 U	0.0566 U [0.0533 U]	0.230 J	0.530 U [0.530 U]	0.0530 U	0.0533 U
2-Methylphenol	--	--	ug/L	0.470 U	0.500 U [0.466 U]	3.00 U	4.70 U [4.70 U]	0.470 U	0.466 U
2-Nitrophenol	--	--	ug/L	0.0870 U	0.0932 U [0.0866 U]	0.0840 J	0.870 U [0.870 U]	0.0870 U	0.0866 U
4,6-Dinitro-2-Methylphenol	--	--	ug/L	0.400 U	0.433 U [0.400 U]	1.60 U	4.00 U [4.00 U]	0.400 U	0.400 U
4-Chloro-3-Methylphenol	--	--	ug/L	0.0700 U	0.0766 U [0.0699 U]	0.0590 J	0.700 U [0.700 U]	0.0700 U	0.0699 U
4-Methylphenol	--	--	ug/L	0.530 U	0.566 U [0.533 U]	2.53 U	5.30 U [5.30 U]	0.530 U	0.533 U
4-Nitrophenol	--	--	ug/L	4.30 U	4.66 U [4.33 U]	2.93 U	43.0 U [43.0 U]	4.30 U	4.33 U
Pentachlorophenol	1	0.1	ug/L	0.300 U	0.326 U [0.303 U]	31.0	190 [240]	0.930	0.303 U
Phenol	6,000	1,200	ug/L	0.0930 U	0.0999 U [0.0932 U]	0.130 J	0.930 U [0.930 U]	0.0930 U	0.0932 U
Total Phenolics	--	--	ug/L	ND	ND [ND]	36.7 J	218 J [283 J]	0.930	ND
Acenaphthene	--	--	ug/L	0.0430 U	0.0466 U [0.0433 U]	2.20 J	1.50 J [1.20 J]	0.0430 U	0.0433 U
Acenaphthylene	--	--	ug/L	0.0400 U	0.0433 U [0.0400 U]	0.160 J	0.400 U [0.400 U]	0.0400 U	0.0400 U
Anthracene	3,000	600	ug/L	0.0190 J	0.0500 U [0.0466 U]	0.930 J	0.200 J [0.290 J]	0.0200 J	0.0190 J
Benzo(a)anthracene	--	--	ug/L	0.120 U	0.133 U [0.123 U]	0.400 U	1.20 U [1.20 U]	0.120 U	0.123 U
Benzo(a)pyrene	0.2	0.02	ug/L	0.0770 U	0.0833 U [0.0766 U]	0.206 U	0.770 U [0.770 U]	0.0770 U	0.0766 U
Benzo(b)fluoranthene	0.2	0.02	ug/L	0.130 U	0.143 U [0.133 U]	0.160 J	1.30 U [1.30 U]	0.130 U	0.133 U
Benzo(g,h,i)perylene	--	--	ug/L	0.0730 U	0.0799 U [0.0733 U]	0.200 U	0.730 U [0.730 U]	0.0730 U	0.0733 U
Benzo(k)fluoranthene	--	--	ug/L	0.120 U	0.130 U [0.120 U]	0.320 U	1.20 U [1.20 U]	0.120 U	0.120 U
Chrysene	0.2	0.02	ug/L	0.0670 U	0.0733 U [0.0666 U]	0.190 J	0.670 U [0.670 U]	0.0670 U	0.0666 U
Dibenzo(a,h)anthracene	--	--	ug/L	0.0870 U	0.0932 U [0.0866 U]	0.127 U	0.870 U [0.870 U]	0.0870 U	0.0866 U
Fluoranthene	400	80	ug/L	0.0390 J	0.0220 J [0.0533 U]	1.00 J	0.200 J [0.290 J]	0.0530 U	0.0190 J
Fluorene	400	80	ug/L	0.0370 U	0.0400 U [0.0366 U]	1.20 J	0.370 U [0.370 U]	0.0370 U	0.0366 U
Indeno(1,2,3-cd)pyrene	--	--	ug/L	0.0470 U	0.0500 U [0.0466 U]	0.140 U	0.470 U [0.470 U]	0.0470 U	0.0190 J
Naphthalene	100	10	ug/L	0.0770 U	0.0799 U [0.0766 U]	0.560	0.770 U [0.770 U]	0.0770 U	0.0766 U
Phenanthrene	--	--	ug/L	0.0190 J	0.0533 U [0.0210 J]	0.490 J	0.500 U [0.500 U]	0.0500 U	0.0190 J
Pyrene	250	50	ug/L	0.160 U	0.170 U [0.157 U]	0.940 J	1.60 U [1.60 U]	0.160 U	0.157 U
Total PAHs	--	--	ug/L	0.0770 J	0.0220 J [0.0210 J]	7.83 J	1.90 J [1.78 J]	0.0200 J	0.0760 J

See Notes on Page 4

Table 3
Summary of 2006-2007 VOC and SVOC Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-38A 10/25/06	W-38A 04/16/07	W-39A 10/25/06	W-39A 04/16/07	W-40A 04/17/07	W-40A 06/13/07
Benzene	5	0.5	ug/L	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	--	--	ug/L	0.157 U	0.530 U	0.157 U	0.530 U	0.530 U	0.533 U
2,3,5,6-Tetrachlorophenol	--	--	ug/L	1.67 U	1.50 U	1.67 U	1.50 U	1.50 U	1.47 U
2,4,5-Trichlorophenol	--	--	ug/L	0.0999 U	0.370 U	0.0999 U	0.370 U	0.370 U	0.366 U
2,4,6-Trichlorophenol	--	--	ug/L	0.0833 U	0.0900 U	0.0833 U	0.0900 U	0.0900 U	0.0899 U
2,4-Dichlorophenol	--	--	ug/L	0.0733 U	0.0500 U	0.0733 U	0.0500 U	0.0500 U	0.0500 U
2,4-Dimethylphenol	--	--	ug/L	1.80 U	1.10 U	1.80 U	1.10 U	1.10 U	1.10 U
2,4-Dinitrophenol	--	--	ug/L	0.699 U	5.00 U	0.699 U	5.00 U	5.00 U	5.00 U
2-Chlorophenol	--	--	ug/L	0.0932 U	0.0530 U	0.0932 U	0.0530 U	0.0530 U	0.0533 U
2-Methylphenol	--	--	ug/L	1.50 U	0.470 U	1.50 U	0.470 U	0.470 U	0.466 U
2-Nitrophenol	--	--	ug/L	0.127 U	0.0870 U	0.127 U	0.0870 U	0.0870 U	0.0866 U
4,6-Dinitro-2-Methylphenol	--	--	ug/L	0.799 U	0.400 U	0.799 U	0.400 U	0.400 U	0.400 U
4-Chloro-3-Methylphenol	--	--	ug/L	0.0799 U	0.0700 U	0.0799 U	0.0700 U	0.0700 U	0.0699 U
4-Methylphenol	--	--	ug/L	1.27 U	0.530 U	1.27 U	0.530 U	0.530 U	0.533 U
4-Nitrophenol	--	--	ug/L	1.47 U	4.30 U	1.47 U	4.30 U	4.30 U	4.33 U
Pentachlorophenol	1	0.1	ug/L	0.203 U	0.303 U	0.203 U	0.300 U	0.300 U	0.440
Phenol	6,000	1,200	ug/L	0.0680 J	0.0930 U	0.183 U	0.0930 U	0.0930 U	0.0932 U
Total Phenolics	--	--	ug/L	0.0680 J	ND	ND	ND	ND	0.440
Acenaphthene	--	--	ug/L	0.0699 U	0.0430 U	0.0699 U	0.0190 J	0.0430 U	0.0433 U
Acenaphthylene	--	--	ug/L	0.127 U	0.0190 J	0.127 U	0.0400 U	0.0400 U	0.0400 U
Anthracene	3,000	600	ug/L	0.0540 J	0.0970 J	0.0999 U	0.0470 U	0.0470 U	0.0466 U
Benzo(a)anthracene	--	--	ug/L	0.193 U	0.140 J	0.193 U	0.120 U	0.120 U	0.123 U
Benzo(a)pyrene	0.2	0.02	ug/L	0.0730 J	0.170 J	0.103 U	0.0770 U	0.0770 U	0.0766 U
Benzo(b)fluoranthene	0.2	0.02	ug/L	0.210 J	0.510	0.127 U	0.130 U	0.130 U	0.133 U
Benzo(g,h,i)perylene	--	--	ug/L	0.0999 U	0.160 J	0.0999 U	0.0730 U	0.0730 U	0.0420 J
Benzo(k)fluoranthene	--	--	ug/L	0.0550 J	0.170 J	0.160 U	0.120 U	0.120 U	0.120 U
Chrysene	0.2	0.02	ug/L	0.0800 J	0.120 J	0.0999 U	0.0670 U	0.0670 U	0.0210 J
Dibenzo(a,h)anthracene	--	--	ug/L	0.0633 U	0.0390 J	0.0633 U	0.0870 U	0.0870 U	0.0310 J
Fluoranthene	400	80	ug/L	0.0790 J	0.170 J	0.110 U	0.0190 J	0.0530 U	0.0533 U
Fluorene	400	80	ug/L	0.0899 U	0.0370 U	0.0899 U	0.0190 J	0.0370 U	0.0366 U
Indeno(1,2,3-cd)pyrene	--	--	ug/L	0.0380 J	0.170 J	0.0699 U	0.0470 U	0.0470 U	0.0310 J
Naphthalene	100	10	ug/L	0.0733 U	0.0770 U	0.0733 U	0.0290 J	0.0770 U	0.0766 U
Phenanthrene	--	--	ug/L	0.110 U	0.0490 J	0.110 U	0.0290 J	0.0500 U	0.0500 U
Pyrene	250	50	ug/L	0.110 J	0.230 J	0.147 U	0.160 U	0.160 U	0.157 U
Total PAHs	--	--	ug/L	0.699 J	2.04 J	ND	0.115 J	ND	0.125 J

See Notes on Page 4

Table 3
Summary of 2006-2007 VOC and SVOC Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Notes:

VOCs = volatile organic compounds (Method 8021B)

SVOCs = semivolatile organic compounds (Method 8270C ion trap)

WDNR = Wisconsin Department of Natural Resources

ES = Enforcement Standard

PAL = Preventive Action Limit

ug/L = micrograms per liter

[] = duplicate result

U = constituent not detected; associated value is the laboratory quantitation limit

J = estimated result (less than the reporting limit)

NA = not analyzed

ND = non-detect

Light shading indicates result exceed the PAL

Dark shading indicated result exceeds ES

Table 4
Summary of 2006-2007 PCDD/PCDF Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-14A 10/23/06	W-14A 04/16/07	W-16A 10/23/06	W-16A 04/17/07	W-25A 10/24/06	W-25A 04/17/07	W-26A 10/24/06
1,2,3,4,6,7,8-HpCDD	--	--	ug/L	0.000057 B	0.000053	0.0025	0.0025	0.0075 [0.01]	0.0041	0.00017 B
1,2,3,4,6,7,8-HpCDF	--	--	ug/L	0.00001 U	0.000011 U	0.00021	0.0002	0.0027 [0.0038]	0.0014	0.00004 JB
1,2,3,4,7,8,9-HpCDF	--	--	ug/L	0.0000021 J	0.000012 U	0.000021 J	0.000022 J	0.00037 [0.00052]	0.00018	0.0000043 U
1,2,3,4,7,8-HxCDD	--	--	ug/L	0.0000027 U	0.000019 U	0.0000095 J	0.0000091 JJA	0.000035 J [0.000055]	0.000019 JJA	0.0000028 U
1,2,3,4,7,8-HxCDF	--	--	ug/L	0.0000019 U	0.000016 U	0.000017 J	0.000018 J	0.0002 [0.00031]	0.00017	0.0000042 U
1,2,3,6,7,8-HxCDD	--	--	ug/L	0.0000026 U	0.000019 U	0.000053	0.000061	0.00037 [0.00055]	0.00022	0.0000048 JB
1,2,3,6,7,8-HxCDF	--	--	ug/L	0.0000018 U	0.000015 U	0.0000041 U	0.0000036 U	0.00013 [0.00016]	0.000057	0.0000022 U
1,2,3,7,8,9-HxCDD	--	--	ug/L	0.0000025 U	0.000018 U	0.00002 J	0.000056	0.0001 [0.00016]	0.000042 J	0.0000032 U
1,2,3,7,8,9-HxCDF	--	--	ug/L	0.0000022 U	0.000018 U	0.0000022 U	0.0000043 U	0.000025 J [0.000036 J]	0.000015 J	0.0000028 U
1,2,3,7,8-PeCDD	--	--	ug/L	0.0000046 U	0.000029 U	0.0000075 U	0.0000062 U	0.0000087 U [0.000017 U]	0.0000067 JJA	0.0000047 U
1,2,3,7,8-PeCDF	--	--	ug/L	0.0000022 U	0.000017 U	0.000003 U	0.0000044 U	0.000043 J [0.000063]	0.000025 J	0.0000021 U
2,3,4,6,7,8-HxCDF	--	--	ug/L	0.000002 U	0.000017 U	0.0000031 U	0.0000041 U	0.000061 [0.0001]	0.000033 J	0.0000025 U
2,3,4,7,8-PeCDF	--	--	ug/L	0.0000022 U	0.000017 U	0.000003 U	0.0000045 U	0.000022 J [0.000039 J]	0.000014 J	0.0000021 U
2,3,7,8-TCDD	0.00003	0.000003	ug/L	0.0000015 U	0.0000043 U	0.0000024 U	0.0000038 U	0.0000036 U [0.0000033 U]	0.0000027 U	0.000002 U
2,3,7,8-TCDF	--	--	ug/L	0.0000014 U	0.0000092 U	0.0000016 U	0.0000027 U	0.0000034 UCON [0.0000055 CON]	0.0000033 JJA	0.0000017 U
OCDD	--	--	ug/L	0.00063	0.00061	0.023	0.023 B	0.046 E [0.064 E]	0.025 B	0.0021
OCDF	--	--	ug/L	0.000041 BJ	0.000049	0.00091	0.001	0.005 [0.0069]	0.003	0.00015 B
TOTAL HpCDD	--	--	ug/L	0.00013	0.00013	0.0078	0.0085	0.011 [0.015]	0.0062	0.00031
TOTAL HpCDF	--	--	ug/L	0.000034	0.000012 U	0.001	0.00087	0.01 [0.015]	0.0052	0.00014
TOTAL HxCDD	--	--	ug/L	0.0000096	0.000019 U	0.0007	0.00078	0.00086 [0.0013]	0.00051	0.0000048
TOTAL HxCDF	--	--	ug/L	0.0000057	0.000018 U	0.00019	0.00018	0.0033 [0.0053]	0.002	0.000022
TOTAL PeCDD	--	--	ug/L	0.000017 U	0.000029 U	0.000011 U	0.000012 U	0.0000087 U [0.000017 U]	0.0000067	0.000013 U
TOTAL PeCDF	--	--	ug/L	0.000004 U	0.000017 U	0.0000036	0.0000045 U	0.00024 [0.00035]	0.00012	0.000003 U
TOTAL TCDD	--	--	ug/L	0.000002	0.0000043 U	0.0000035 U	0.0000038 U	0.0000036 U [0.0000033 U]	0.0000027 U	0.000002 U
TOTAL TCDF	--	--	ug/L	0.0000016	0.0000092 U	0.0000016 U	0.0000027 U	0.000013 [0.000019]	0.0000076	0.0000017 U
2,3,7,8-TCDD TEQ	0.00003	0.000003	ug/L	0.000000792	0.000000728	0.0000444	0.0000488	0.000221 [0.000316]	0.000133	0.00000326

See Notes on Page 3

Table 4
Summary of 2006-2007 PCDD/PCDF Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDR ES	WDR PAL	Units	W-26A 04/16/07	W-35A 04/17/07	W-35A 06/13/07	W-36A 10/24/06	W-36A 04/17/07	W-39A 10/25/06	W-39A 04/16/07
1,2,3,4,6,7,8-HpCDD	--	--	ug/L	0.000017 U	0.00029	0.00012 [0.000092]	0.00086 B	0.00076	0.00002 JB	0.000018 U
1,2,3,4,6,7,8-HpCDF	--	--	ug/L	0.00001 U	0.000061	0.000033 J [0.000024 J]	0.00013 B	0.00011	0.0000056 U	0.000013 U
1,2,3,4,7,8,9-HpCDF	--	--	ug/L	0.000011 U	0.0000044 U	0.0000032 J [0.0000026 J]	0.0000078 U	0.0000057 U	0.0000019 U	0.000014 U
1,2,3,4,7,8-HxCDD	--	--	ug/L	0.000017 U	0.0000042 U	0.0000007 U [0.00000063 U]	0.0000026 U	0.0000055 U	0.0000028 U	0.000022 U
1,2,3,4,7,8-HxCDF	--	--	ug/L	0.000013 U	0.0000034 U	0.0000036 J [0.0000028 J]	0.0000038 U	0.0000041 U	0.0000019 U	0.000019 U
1,2,3,6,7,8-HxCDD	--	--	ug/L	0.000016 U	0.000004 U	0.0000042 J [0.0000033 J]	0.000027 JB	0.000022 J	0.0000027 U	0.000022 U
1,2,3,6,7,8-HxCDF	--	--	ug/L	0.000012 U	0.0000032 U	0.0000011 J [0.00000062 U]	0.0000023 U	0.0000038 U	0.0000018 U	0.000018 U
1,2,3,7,8,9-HxCDD	--	--	ug/L	0.000015 U	0.0000038 U	0.0000012 U [0.0000011 J]	0.0000071 J	0.000005 U	0.0000026 U	0.000021 U
1,2,3,7,8,9-HxCDF	--	--	ug/L	0.000014 U	0.0000038 U	0.00000088 U [0.00000078 U]	0.0000028 U	0.0000046 U	0.0000022 U	0.000021 U
1,2,3,7,8-PeCDD	--	--	ug/L	0.000019 U	0.0000057 U	0.00000064 U [0.00000068 U]	0.0000035 U	0.0000071 U	0.0000037 U	0.000035 U
1,2,3,7,8-PeCDF	--	--	ug/L	0.000015 U	0.0000038 U	0.00000066 U [0.00000062 J]	0.0000021 U	0.0000044 U	0.0000021 U	0.000021 U
2,3,4,6,7,8-HxCDF	--	--	ug/L	0.000014 U	0.0000036 U	0.00000093 U [0.00000069 U]	0.0000025 U	0.0000044 U	0.000002 U	0.00002 U
2,3,4,7,8-PeCDF	--	--	ug/L	0.000015 U	0.0000038 U	0.00000053 U [0.00000053 J]	0.0000021 U	0.0000045 U	0.000002 U	0.000021 U
2,3,7,8-TCDD	0.00003	0.000003	ug/L	0.0000048 U	0.0000028 U	0.00000047 U [0.00000044 U]	0.0000016 U	0.0000036 U	0.0000016 U	0.0000087 U
2,3,7,8-TCDF	--	--	ug/L	0.0000082 U	0.0000026 U	0.00000071 U [0.00000065 U]	0.0000015 U	0.0000026 U	0.0000016 U	0.000004 U
OCDD	--	--	ug/L	0.00027	0.0031 B	0.0017 [0.0012]	0.0088	0.0083 B	0.00021	0.000065 JA
OCDF	--	--	ug/L	0.000026 U	0.00035	0.0001 J [0.000073 J]	0.00086 B	0.0009	0.000019 JB	0.000028 U
TOTAL HpCDD	--	--	ug/L	0.000017 U	0.0006	0.00027 [0.0002]	0.0016	0.0014	0.000044	0.000018 U
TOTAL HpCDF	--	--	ug/L	0.000011 U	0.00025	0.00014 [0.0001]	0.0007	0.00057	0.000012	0.000014 U
TOTAL HxCDD	--	--	ug/L	0.000017 U	0.0000055 U	0.000017 [0.0000096]	0.000095	0.000071	0.0000028 U	0.000022 U
TOTAL HxCDF	--	--	ug/L	0.000014 U	0.00003	0.000042 [0.000028]	0.000081	0.000051	0.0000022 U	0.000021 U
TOTAL PeCDD	--	--	ug/L	0.000019 U	0.0000057 U	0.00000096 U [0.00000083 U]	0.0000098 U	0.0000071 U	0.000012 U	0.000035 U
TOTAL PeCDF	--	--	ug/L	0.000015 U	0.0000038 U	0.00000066 U [0.0000012]	0.0000029 U	0.0000045 U	0.0000038 U	0.000021 U
TOTAL TCDD	--	--	ug/L	0.0000048 U	0.0000028 U	0.0000012 U [0.000001 U]	0.0000016 U	0.0000036 U	0.0000018 U	0.0000087 U
TOTAL TCDF	--	--	ug/L	0.0000082 U	0.0000026 U	0.00000071 U [0.00000065 U]	0.0000015 U	0.0000026 U	0.0000016 U	0.000004 U
2,3,7,8-TCDD TEQ	0.00003	0.000003	ug/L	0.000000081	0.00000455	0.00000299 [0.00000247]	0.0000162	0.0000137	0.000000269	0.0000000195

See Notes on Page 3

Table 4
Summary of 2006-2007 PCDD/PCDF Supplemental Groundwater Sample Data

Koppers Inc. Facility
Superior, Wisconsin

Notes:

PCDDs/PCDFs = polychlorinated dibenzo-p-dioxins and dibenzofurans (Method 8290)

WDNR = Wisconsin Department of Natural Resources

ES = Enforcement Standard

PAL = Preventive Action Limit

ug/L = micrograms per liter

TEQ = toxicity equivalent (See Note 2)

[] = duplicate result

U = constituent not detected; associated value is the laboratory detection limit

J = estimated result (less than the reporting limit)

JA = constituent was positively identified, but the quantitation is estimated

B = the associated method blank contains the constituent at a reportable level

E = estimated result (exceed calibration range)

CON = result obtained from confirmation analysis

Light shading indicates result exceed the PAL

Dark shading indicates result exceeds ES

1. At the request of WDNR, 2,3,7,8-TCDD TEQs compared to the PAL and ES for 2,3,7,8-TCDD.
2. 2,3,7,8-TCDD TEQs calculated using the following toxic equivalency factors (TEFs; WHO 2005):

1,2,3,4,6,7,8-HpCDD	0.01	* Non-detect values excluded from TEQ calculation
1,2,3,4,6,7,8-HpCDF	0.01	
1,2,3,4,7,8,9-HpCDF	0.01	
1,2,3,4,7,8-HxCDD	0.1	
1,2,3,4,7,8-HxCDF	0.1	
1,2,3,6,7,8-HxCDD	0.1	
1,2,3,6,7,8-HxCDF	0.1	
1,2,3,7,8,9-HxCDD	0.1	
1,2,3,7,8,9-HxCDF	0.1	
1,2,3,7,8-PeCDD	1	
1,2,3,7,8-PeCDF	0.03	
2,3,4,6,7,8-HxCDF	0.1	
2,3,4,7,8-PeCDF	0.3	
2,3,7,8-TCDD	1	
2,3,7,8-TCDF	0.1	
OCDD	0.0003	
OCDF	0.0003	

Table 5
Summary of Maximum Groundwater Sample Concentrations (A-Zone Wells, 2004-2007)

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-04AR	W-06A	W-10AR2	W-12A	W-14A	W-16A	W-17A	W-20AR	W-25A
Benzene	0.5	5	ug/L	ND	ND	54	ND	NA	110	NA	NA	NA
Pentachlorophenol	0.1	1	ug/L	2.4	0.096	42	ND	9.9	ND	ND	ND	14
Naphthalene	10	100	ug/L	0.14	ND	2100	ND	0.03	7100	79	0.02	0.03
Total PAHs	--	--	ug/L	0.4	0.9	2353	0.9	9.8	8323	253	0.19	0.87
2,3,7,8-TCDD TEQ	3.0E-05	3.0E-06	ug/L	3.0E-09	2.5E-06	2.8E-06	1.3E-07	7.9E-07	4.9E-05	NA	NA	3.2E-04

Notes:

WDNR = Wisconsin Department of Natural Resources

ES = Enforcement Standard

PAL = Preventive Action Limit

ug/L = micrograms per liter

ND = constituent not detected (2004-2007)

NA = constituent not analyzed for (2004-2007)

Light shading indicates result exceed the PAL

Dark shading indicated result exceeds ES

1. At the request of WDNR, 2,3,7,8-TCDD TEQs compared to the PAL and ES for 2,3,7,8-TCDD.

Table 5
Summary of Maximum Groundwater Sample Concentrations (A-Zone Wells, 2004-2007)

Koppers Inc. Facility
Superior, Wisconsin

Constituent	WDNR ES	WDNR PAL	Units	W-26A	W-30A	W-35A	W-36A	W-37A	W-38A	W-39A	W-40A
Benzene	0.5	5	ug/L	ND	13	ND	NA	NA	NA	NA	NA
Pentachlorophenol	0.1	1	ug/L	ND	0.24 J	ND	240	0.93	ND	ND	0.44
Naphthalene	10	100	ug/L	ND	2,500	ND	0.56	ND	ND	0.03	ND
Total PAHs	--	--	ug/L	0.03	3023	0.08	7.8	0.08	2	0.12	0.13
2,3,7,8-TCDD TEQ	3.0E-05	3.0E-06	ug/L	3.3E-06	1.2E-04	4.6E-06	1.6E-05	NA	NA	2.7E-07	NA

Notes:

WDNR = Wisconsin Department of Natural Resources

ES = Enforcement Standard

PAL = Preventive Action Limit

ug/L = micrograms per liter

ND = constituent not detected (2004-2007)

NA = constituent not analyzed for (2004-2007)

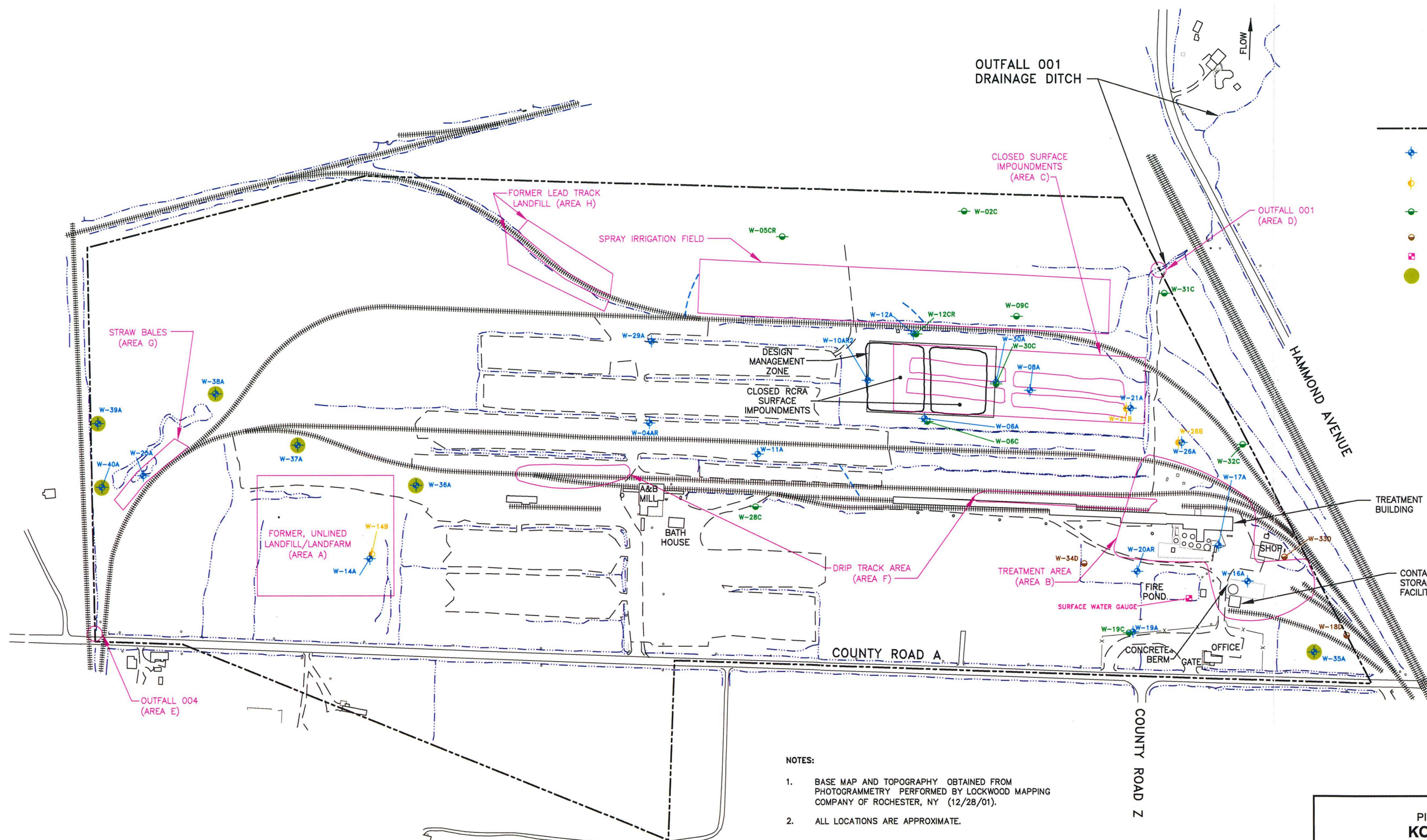
Light shading indicates result exceed the PAL

Dark shading indicated result exceeds ES

1. At the request of WDNR, 2,3,7,8-TCDD TEQs compared to the PAL and ES for 2,3,7,8-TCDD.

Figures

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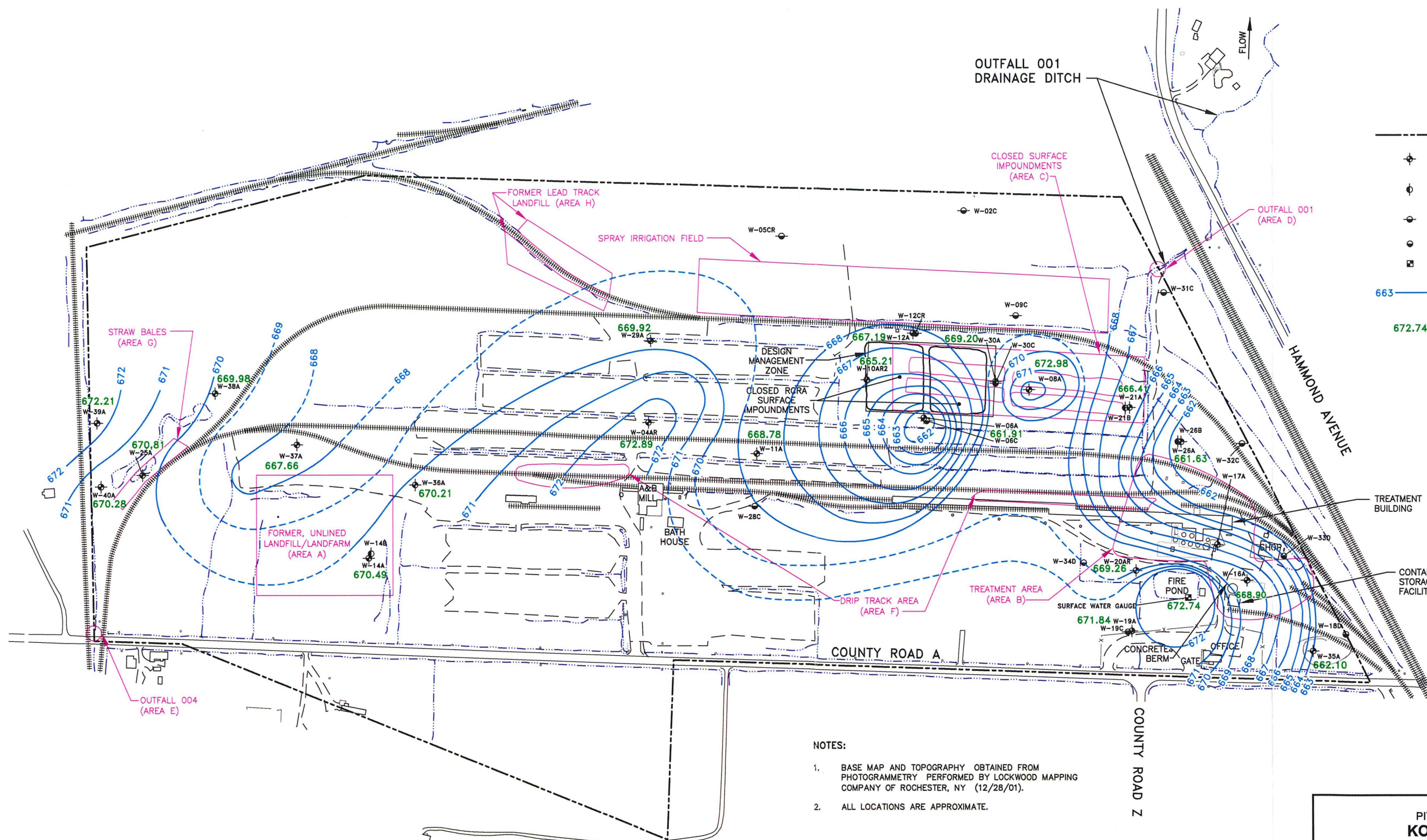


- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ◆ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ◆ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ◆ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ◆ D ZONE (BEDROCK) MONITORING WELL
 - SURFACE WATER GAUGE
 - WELL INSTALLED OCTOBER 2006

- NOTES:**
- BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOCGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 - ALL LOCATIONS ARE APPROXIMATE.

BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA KOPPERS INC. FACILITY SUPERIOR, WISCONSIN	
<h2 style="margin: 0;">SITE PLAN</h2>	
 <small>Infrastructure, environment, facilities</small>	FIGURE 1

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 SHEET: 39075001
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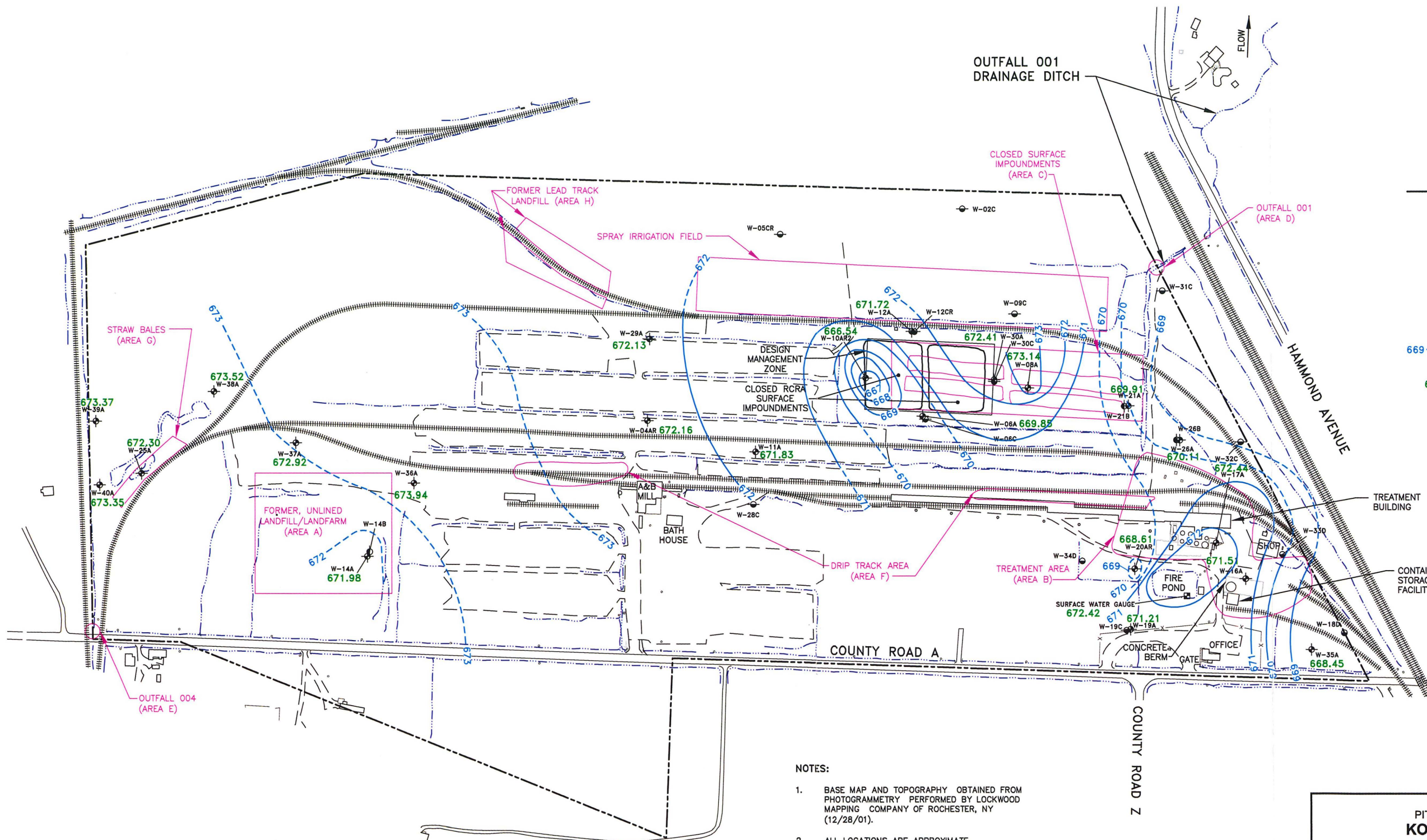
- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ⊕ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ⊙ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ⊖ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ⊗ D ZONE (BEDROCK) MONITORING WELL
 - ⊠ SURFACE WATER GAUGE
 - 663 GROUNDWATER CONTOUR (IN FEET AMSL) (DASHED WHERE INFERRED)
 - 672.74 GROUNDWATER ELEVATION (IN FEET AMSL)

- NOTES:**
- BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 - ALL LOCATIONS ARE APPROXIMATE.

BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA
KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN
A-ZONE GROUNDWATER
CONTOUR MAP - APRIL 11, 2007



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 PROJECT NAME: 39075001 39075000



- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ⊕ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ⊖ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ⊙ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ⊗ D ZONE (BEDROCK) MONITORING WELL
 - ⊠ SURFACE WATER GAUGE
 - 669 GROUNDWATER CONTOUR (IN FEET AMSL) (DASHED WHERE INFERRED)
 - 669.85 GROUNDWATER ELEVATION (IN FEET AMSL)

- NOTES:**
1. BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 2. ALL LOCATIONS ARE APPROXIMATE.

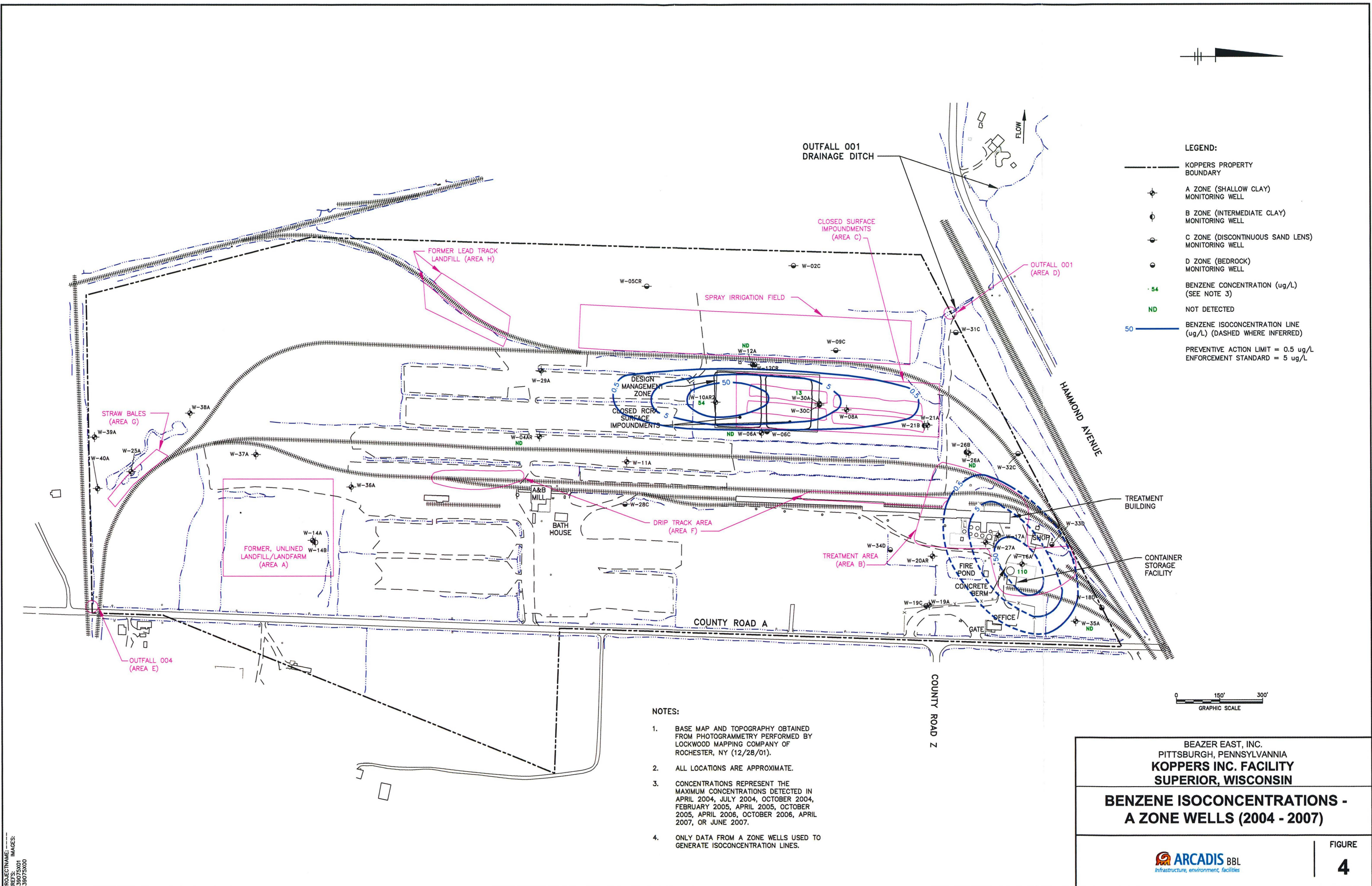


BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA
KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN
ZONE A GROUNDWATER
CONTOUR MAP - JUNE 4, 2007



FIGURE
3

SVL-RE-L1E LAYER: ON-1_QTE-REF*
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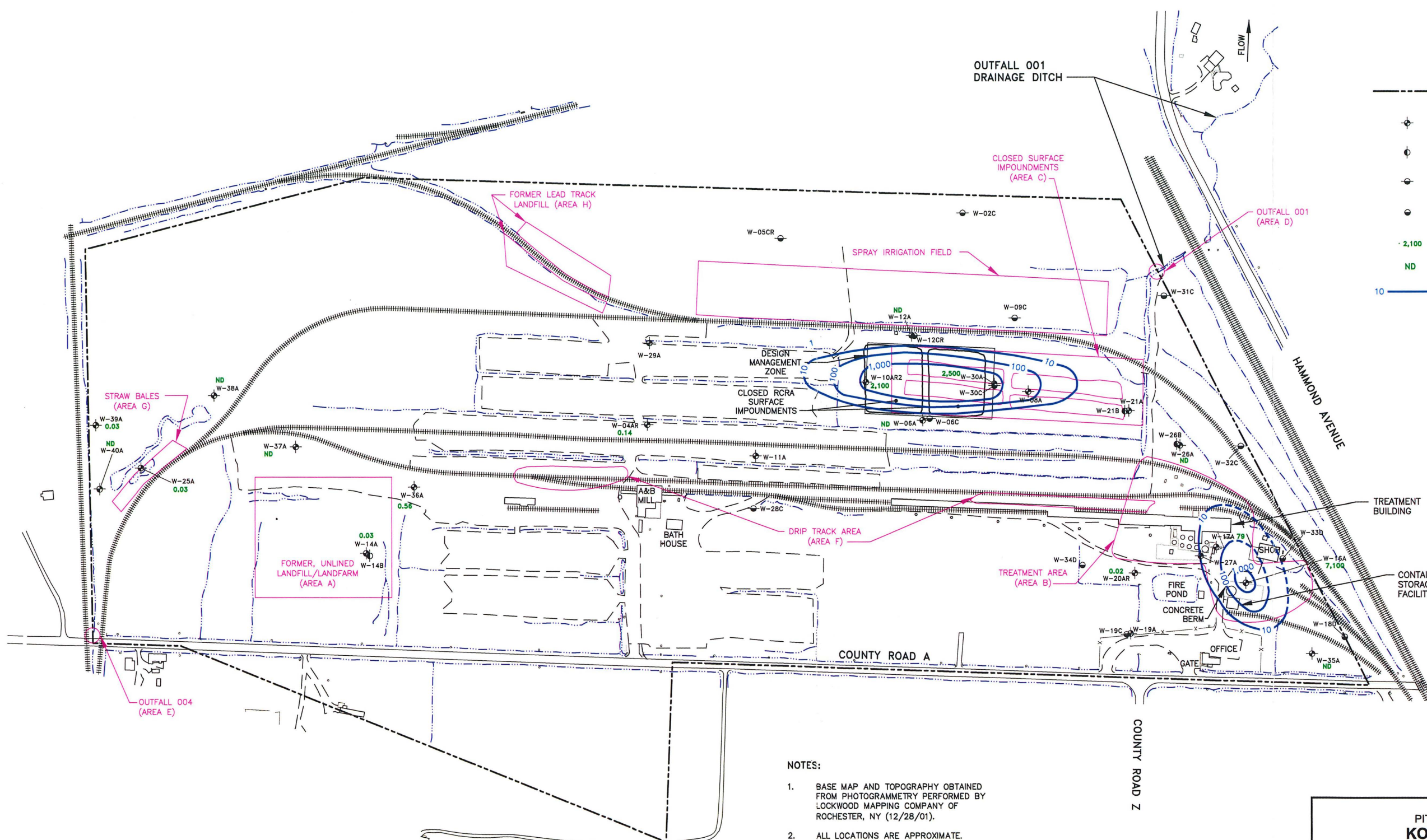
NOTES:

1. BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
2. ALL LOCATIONS ARE APPROXIMATE.
3. CONCENTRATIONS REPRESENT THE MAXIMUM CONCENTRATIONS DETECTED IN APRIL 2004, JULY 2004, OCTOBER 2004, FEBRUARY 2005, APRIL 2005, OCTOBER 2005, APRIL 2006, OCTOBER 2006, APRIL 2007, OR JUNE 2007.
4. ONLY DATA FROM A ZONE WELLS USED TO GENERATE ISOCONCENTRATION LINES.

BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA
KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN
BENZENE ISOCONCENTRATIONS -
A ZONE WELLS (2004 - 2007)

 Infrastructure, environment, facilities	FIGURE 4
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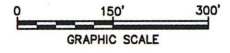
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 39075X00



- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ⊕ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ⊖ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ⊙ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ⊗ D ZONE (BEDROCK) MONITORING WELL
 - 2,100 NAPHTHALENE CONCENTRATION (ug/L) (SEE NOTE 3)
 - ND NOT DETECTED
 - 10 NAPHTHALENE ISOCONCENTRATION LINE (ug/L) (DASHED WHERE INFERRED)
 - PREVENTIVE ACTION LIMIT = 10 ug/L
 - ENFORCEMENT STANDARD = 100 ug/L

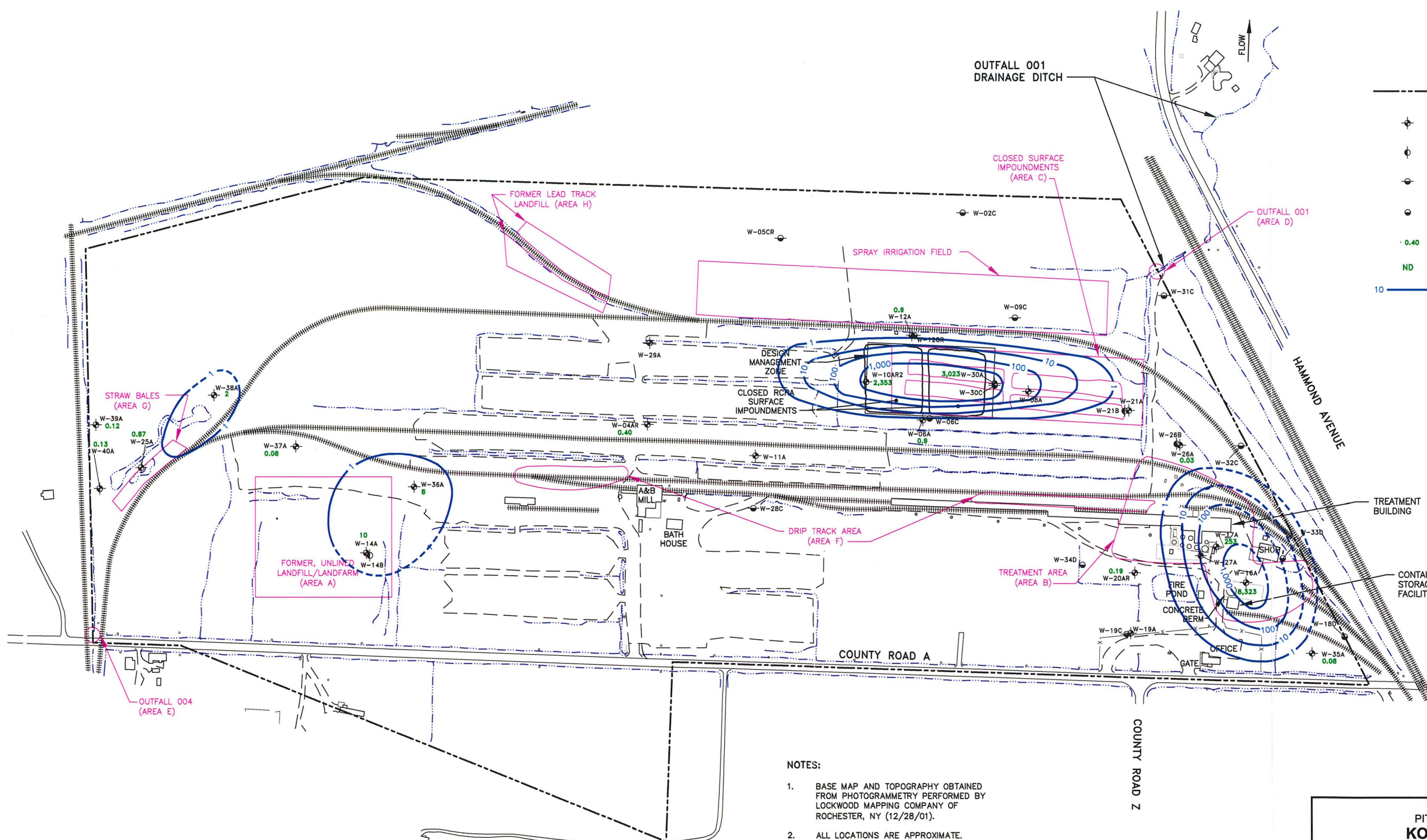
NOTES:

1. BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
2. ALL LOCATIONS ARE APPROXIMATE.
3. CONCENTRATIONS REPRESENT THE MAXIMUM CONCENTRATIONS DETECTED IN APRIL 2004, JULY 2004, OCTOBER 2004, FEBRUARY 2005, APRIL 2005, OCTOBER 2005, APRIL 2006, OCTOBER 2006, APRIL 2007, OR JUNE 2007.
4. ONLY DATA FROM A ZONE WELLS USED TO GENERATE ISOCONCENTRATION LINES.



BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA KOPPERS INC. FACILITY SUPERIOR, WISCONSIN	
NAPHTHALENE ISOCONCENTRATIONS - A ZONE WELLS (2004 - 2007)	
ARCADIS BBL <small>Infrastructure, environment, facilities</small>	FIGURE 5

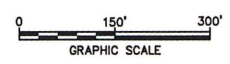
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- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ⊕ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ⊖ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ⊙ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ⊗ D ZONE (BEDROCK) MONITORING WELL
 - 0.40 TOTAL PAH CONCENTRATION (ug/L) (SEE NOTE 3)
 - ND NOT DETECTED
 - 10 TOTAL PAH ISOCONCENTRATION LINE (ug/L) (DASHED WHERE INFERRED)

NOTES:

1. BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
2. ALL LOCATIONS ARE APPROXIMATE.
3. CONCENTRATIONS REPRESENT THE MAXIMUM CONCENTRATIONS DETECTED IN APRIL 2004, JULY 2004, OCTOBER 2004, FEBRUARY 2005, APRIL 2005, OCTOBER 2005, APRIL 2006, OCTOBER 2006, APRIL 2007, OR JUNE 2007.
4. ONLY DATA FROM A ZONE WELLS USED TO GENERATE ISOCONCENTRATION LINES.

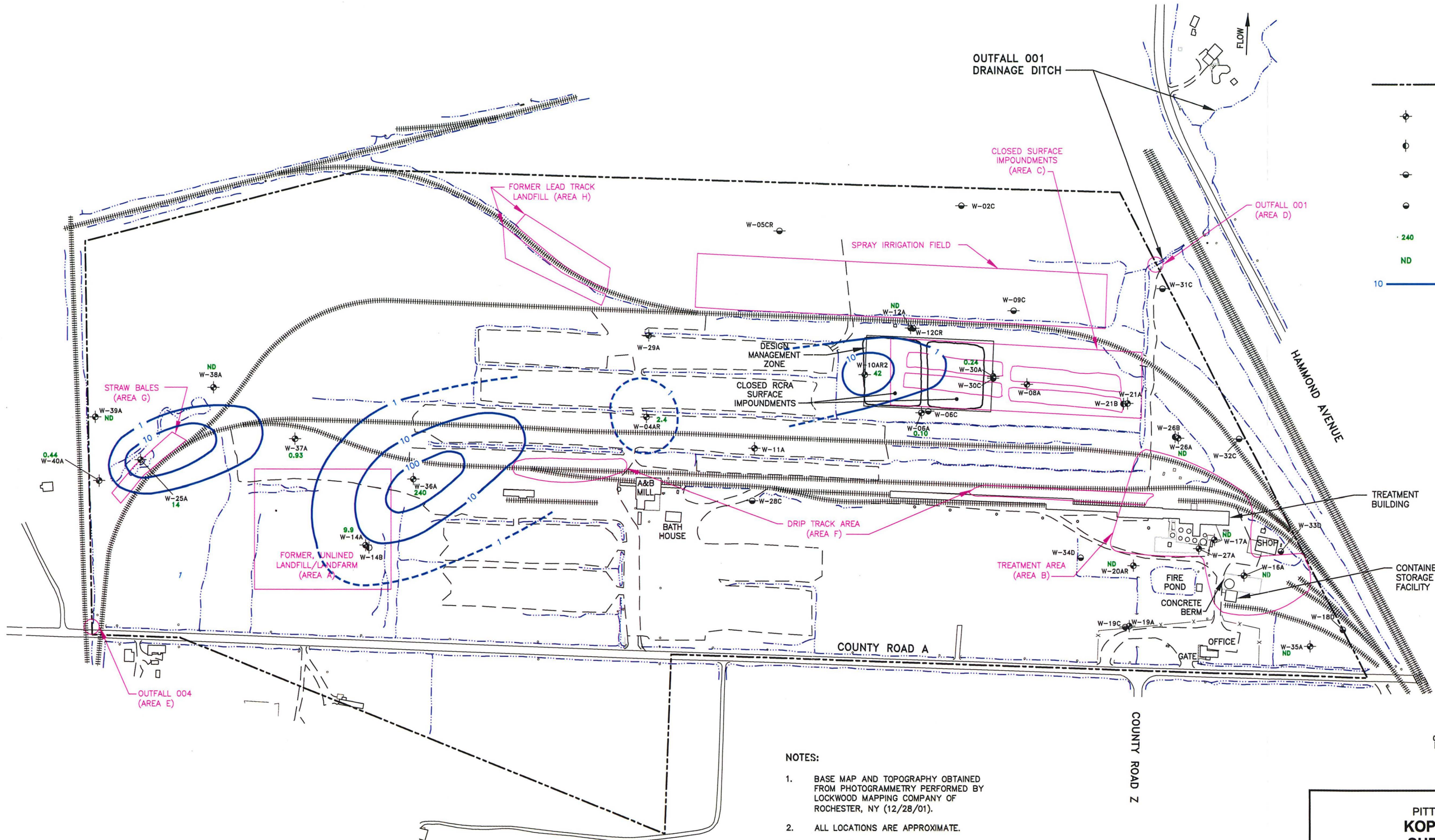


BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA
KOPPERS INC. FACILITY
 SUPERIOR, WISCONSIN
TOTAL PAH ISOCONCENTRATIONS -
A ZONE WELLS (2004 - 2007)

ARCADIS BBL
 Infrastructure, environment, facilities

FIGURE
6

SYR-RE-LAE LAYER: ON-*, OFF-ARE*
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 PROJECT NAME: IMAGES:
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 39075X00



- LEGEND:**
- KOPPERS PROPERTY BOUNDARY
 - ⊕ A ZONE (SHALLOW CLAY) MONITORING WELL
 - ⊖ B ZONE (INTERMEDIATE CLAY) MONITORING WELL
 - ⊙ C ZONE (DISCONTINUOUS SAND LENS) MONITORING WELL
 - ⊘ D ZONE (BEDROCK) MONITORING WELL
 - 240 PENTACHLOROPHENOL CONCENTRATION (ug/L) (SEE NOTE 3)
 - ND NOT DETECTED
 - 10 PENTACHLOROPHENOL ISOCONCENTRATION LINE (ug/L) (DASHED WHERE INFERRED)
 - PREVENTIVE ACTION LIMIT = 0.1 ug/L
 - ENFORCEMENT STANDARD = 1 ug/L

- NOTES:**
1. BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 2. ALL LOCATIONS ARE APPROXIMATE.
 3. CONCENTRATIONS REPRESENT THE MAXIMUM CONCENTRATIONS DETECTED IN APRIL 2004, JULY 2004, OCTOBER 2004, FEBRUARY 2005, APRIL 2005, OCTOBER 2005, APRIL 2006, OCTOBER 2006, APRIL 2007, OR JUNE 2007.
 4. ONLY DATA FROM A ZONE WELLS USED TO GENERATE ISOCONCENTRATION LINES.

BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA
KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN
PENTACHLOROPHENOL
ISOCONCENTRATIONS -
A ZONE WELLS (2004 - 2007)



 Infrastructure, environment, facilities

FIGURE
7

ARCADIS BBL

Attachments

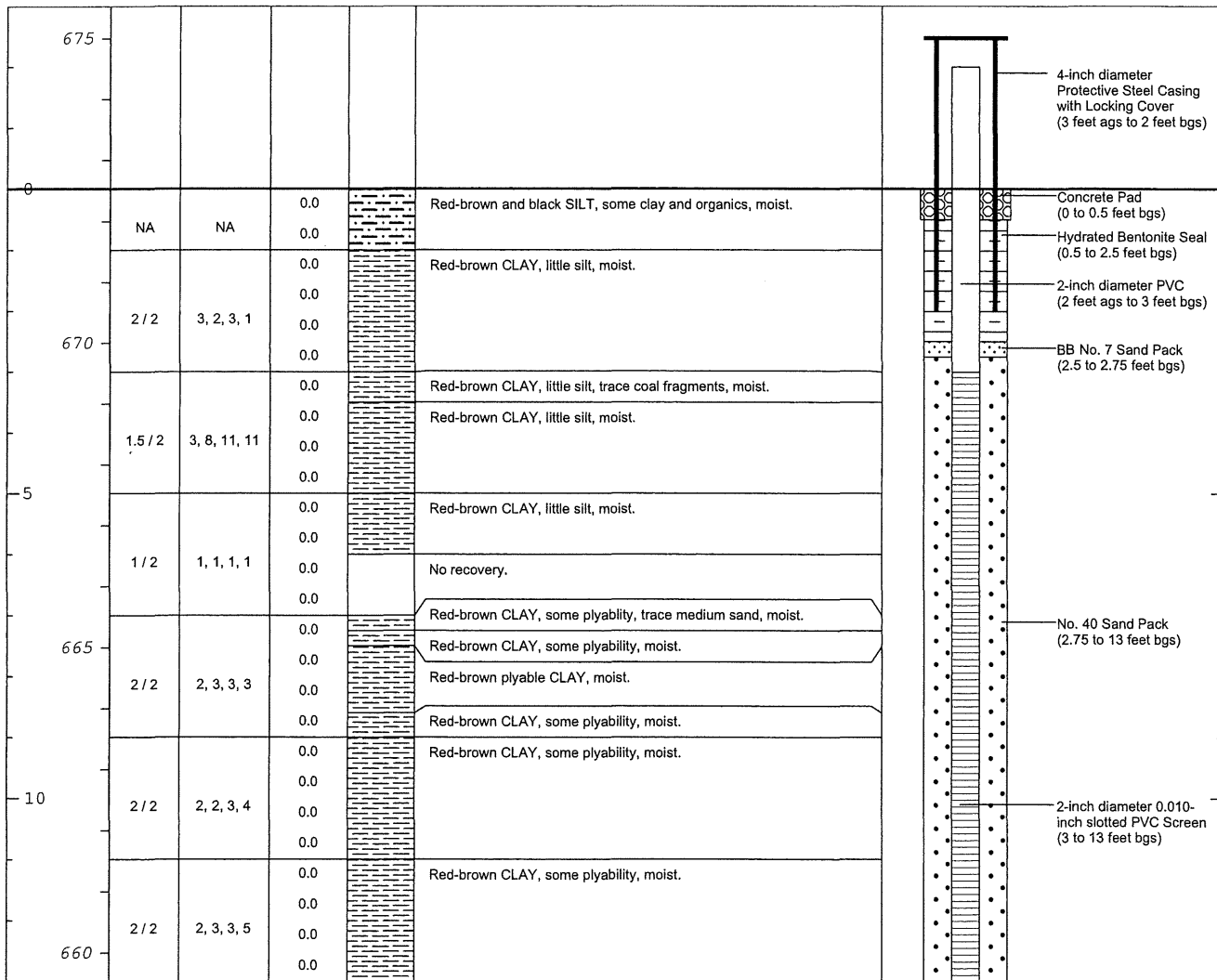
ARCADIS BBL


Attachment 1

Boring/Well Construction Logs

Date Start/Finish: October 11, 2006	Northing: 547310	Well/Boring ID: W-35A
Drilling Company: Boart Longyear	Easting: 1449487	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 675.30 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size:	Surface Elevation: 672.53 feet amsl	
Auger Size: 4.25-inch	Geologist: David M. Mack	
Rig Type: B-57 ORV 811		
Sampling Method: 2-inches by 2-feet (split spoons)		

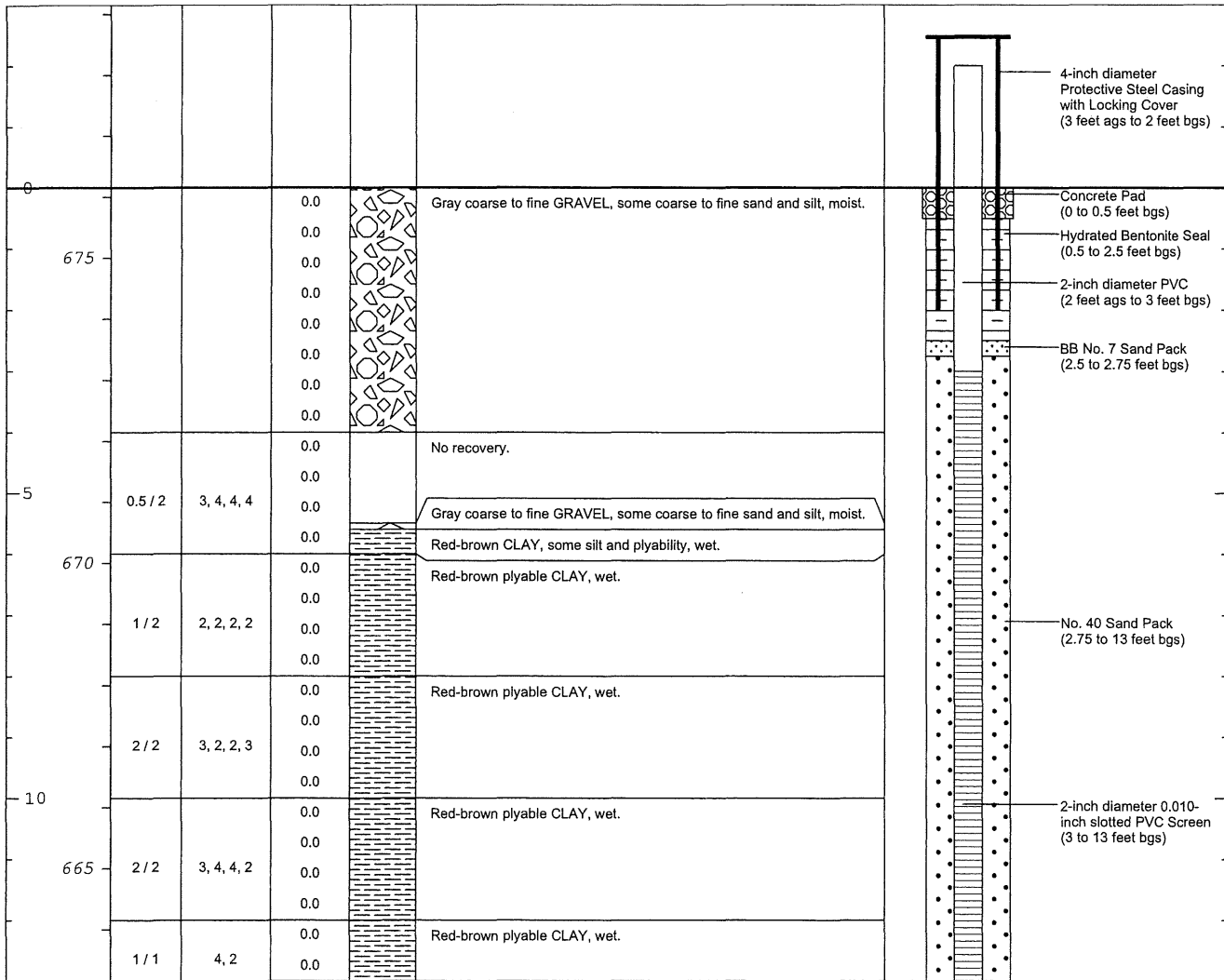
DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-------	-----------	-----------------	------------------	---------------------	-----------------	---------------------------	--------------------------




 <p>ARCADIS BBL Infrastructure, environment, facilities</p>	<p>Remarks: bgs - below ground surface amsl - above mean sea level Split-spoons were driven using a 300 lb hammer.</p>
--	---

Date Start/Finish: October 11, 2006	Northing: 544792	Well/Boring ID: W-36A
Drilling Company: Boart Longyear	Easting: 1449022	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 678.59 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size:	Surface Elevation: 676.15 feet amsl	
Auger Size: 4.25-inch	Geologist: David M. Mack	
Rig Type: B-57 ORV 811		
Sampling Method: 2-inches by 2-feet (split spoons)		

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-------	-----------	-----------------	------------------	---------------------	-----------------	---------------------------	--------------------------




 <p>ARCADIS BBL Infrastructure, environment, facilities</p>	<p>Remarks: bgs - below ground surface amsl - above mean sea level Split-spoons were driven using a 300 lb hammer. Could not collect split-spoons from 0 to 4 feet bgs due to large gravel. Wet clay appears to be wet due to water in first 4 feet of overburden.</p>
--	---

Date Start/Finish: October 11, 2006	Northing: 544461	Well/Boring ID: W-37A
Drilling Company: Boart Longyear	Easting: 1448910	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 676.67 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size: 4.25-inch	Surface Elevation: 674.25 feet amsl	
Auger Size: B-57 ORV 811	Geologist: David M. Mack	
Rig Type: 2-inches by 2-feet (split spoons)		

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID HeadSpace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-------	-----------	-----------------	------------------	---------------------	-----------------	---------------------------	--------------------------

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID HeadSpace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	675						4-inch diameter Protective Steel Casing with Locking Cover (3 feet ags to 2 feet bgs)
				0.0		Red-brown coarse to fine GRAVEL and SILT, little coarse to fine sand, moist.	Concrete Pad (0 to 0.5 feet bgs)
				0.0			Hydrated Bentonite Seal (0.5 to 2.5 feet bgs)
				0.0			2-inch diameter PVC (2 feet ags to 3 feet bgs)
				0.0		Red-brown CLAY, little silt, moist.	BB No. 7 Sand Pack (2.5 to 2.75 feet bgs)
				0.0		Red-brown plyable CLAY, moist	
5	670	1 1/2	2, 2, 3, 6	0.0			
				0.0		Red-brown plyable CLAY, moist	
				0.0			
				0.0		Red-brown plyable CLAY, moist	
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	No. 40 Sand Pack (2.75 to 13 feet bgs)
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	
10	665	2 1/2	1, 1, 2, 3	0.0			
				0.0		Red-brown CLAY, some plyability, moist.	2-inch diameter 0.010-inch slotted PVC Screen (3 to 13 feet bgs)
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
				0.0		Red-brown CLAY, some plyability, moist.	




ARCADIS BBL
Infrastructure, environment, facilities

Remarks: bgs - below ground surface
amsl - above mean sea level
Split-spoons were driven using a 300 lb hammer.
Split-spoons could not be collected 0 to 3 feet bgs due to large gravel.

Date Start/Finish: October 11, 2006	Northing: 544232	Well/Boring ID: W-38A
Drilling Company: Boart Longyear	Easting: 1448767	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 676.90 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size:	Surface Elevation: 674.47 feet amsl	
Auger Size: 4.25-inch	Geologist: David M. Mack	
Rig Type: B-57 ORV 811		
Sampling Method: 2-inches by 2-feet (split spoons)		

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-------	-----------	-----------------	------------------	---------------------	-----------------	---------------------------	--------------------------


DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
675	0			0.0		Red-brown and black SILT and CLAY, little organic matter moist.	4-inch diameter Protective Steel Casing with Locking Cover (3 feet ags to 2 feet bgs)
				0.0		No recovery.	Concrete Pad (0 to 0.5 feet bgs)
		0.66 / 2	2, 2, 3, 3	0.0			Hydrated Bentonite Seal (0.5 to 2.5 feet bgs)
				0.0		Red-brown CLAY, some plyability, moist.	2-inch diameter PVC (2 feet ags to 3 feet bgs)
				0.0		Red-brown CLAY, some plyability, moist.	BB No. 7 Sand Pack (2.5 to 2.75 feet bgs)
670	5	1.5 / 2	2, 2, 3, 3	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2 / 2	2, 2, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2 / 2	2, 3, 3, 2	0.0		Red-brown CLAY, some plyability, moist.	No. 40 Sand Pack (2.75 to 13 feet bgs)
				0.0			
665	10	2 / 2	6, 6, 7, 7	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2 / 2	1, 1, 2, 1	0.0		Red-brown plyable CLAY, moist.	2-inch diameter 0.010-inch slotted PVC Screen (3 to 13 feet bgs)
				0.0			

 <p>ARCADIS BBL Infrastructure, environment, facilities</p>	<p>Remarks: bgs - below ground surface amsl - above mean sea level Split-spoons were driven using a 300 lb hammer.</p>
--	---

Date Start/Finish: October 12, 2006	Northing: 543900	Well/Boring ID: W-39A
Drilling Company: Boart Longyear	Easting: 1448849	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 678.53 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size:	Surface Elevation: 675.77 feet amsl	
Auger Size: 4.25-inch	Geologist: David M. Mack	
Rig Type: B-57 ORV 811		
Sampling Method: 2-inches by 2-feet (split spoons)		

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
-------	-----------	-----------------	------------------	---------------------	-----------------	---------------------------	--------------------------


DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0							4-inch diameter Protective Steel Casing with Locking Cover (3 feet ags to 2 feet bgs)
675				0.0		Gray and black coarse to fine GRAVEL and SILT, little coarse to fine sand, moist	Concrete Pad (0 to 0.5 feet bgs)
				0.0		No recovery.	Hydrated Bentonite Seal (0.5 to 2.5 feet bgs)
		0 / 2	2, 5, 6, 4	0.0			2-inch diameter PVC (2 feet ags to 3 feet bgs)
				0.0			BB No. 7 Sand Pack (2.5 to 2.75 feet bgs)
		0.5 / 2	2, 2, 3, 4	0.0		No recovery.	
5				0.0		Red-brown CLAY, some plyability, moist.	
				0.0		No recovery.	
670		0.5 / 2	2, 3, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	
				0.0		Red-brown CLAY, some plyability, moist.	
		2 / 2	2, 3, 3, 4	0.0		Red-brown CLAY, some plyability, moist.	No. 40 Sand Pack (2.75 to 13 feet bgs)
				0.0		Red-brown CLAY, some plyability, moist.	
10		2 / 2	1, 1, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	2-inch diameter 0.010-inch slotted PVC Screen (3 to 13 feet bgs)
665				0.0		Red-brown CLAY, some plyability, moist.	
		2 / 2	2, 2, 1, 3	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
				0.0			

 <p>ARCADIS BBL Infrastructure, environment, facilities</p>	<p>Remarks: bgs - below ground surface amsl - above mean sea level Split-spoons were driven using a 300 lb hammer.</p>
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Date Start/Finish: October 12, 2006	Northing: 543912	Well/Boring ID: W-40A
Drilling Company: Boart Longyear	Easting: 1449027	Client: Beazer East Inc.
Driller's Name: Gary Jones	Casing Elevation: 676.94 feet amsl	Location: 3185 South County Road A Superior, Wisconsin
Drilling Method: Hollow-stem Auger	Borehole Depth: 13 feet bgs	
Bit Size:	Surface Elevation: 674.33 feet amsl	
Auger Size: 4.25-inch	Geologist: David M. Mack	
Rig Type: B-57 ORV 811		
Sampling Method: 2-inches by 2-feet (split spoons)		

DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
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DEPTH	ELEVATION	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
675	0			0.0		Red-brown and black SILT and CLAY, some organics, moist.	4-inch diameter Protective Steel Casing with Locking Cover (3 feet ags to 2 feet bgs)
				0.0		No recovery.	Concrete Pad (0 to 0.5 feet bgs)
		0/2	1, 1, 1, 1	0.0			Hydrated Bentonite Seal (0.5 to 2.5 feet bgs)
				0.0			2-inch diameter PVC (2 feet ags to 3 feet bgs)
				0.0			BB No. 7 Sand Pack (2.5 to 2.75 feet bgs)
670		2/2	2, 3, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2/2	2, 2, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2/2	3, 4, 2, 2	0.0		Red-brown CLAY, some plyability, moist.	No. 40 Sand Pack (2.75 to 13 feet bgs)
				0.0			
665		2/2	2, 2, 2, 3	0.0		Red-brown CLAY, some plyability, moist.	
				0.0			
		2/2	2, 3, 3, 3	0.0		Red-brown CLAY, some plyability, moist.	2-inch diameter 0.010-inch slotted PVC Screen (3 to 13 feet bgs)
				0.0			

 <p>ARCADIS BBL Infrastructure, environment, facilities</p>	<p>Remarks: bgs - below ground surface amsl - above mean sea level Split-spoons were driven using a 300 lb hammer.</p>
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ARCADIS BBL

Attachment 2

WDNR Well Forms

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-35A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/11/2006		Date Drilling Completed 10/11/2006	
WI Unique Well No.		DNR Well ID No.		Common Well Name W-35A	
Final Static Water Level Feet MSL		Surface Elevation 672.5 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 547310 N, 1449987E SE 1/4 of SW 1/4 of Section 12, T 48 N, R 14 W			Local Grid Location (If applicable) Lat. _____ " <input type="checkbox"/> N <input type="checkbox"/> E Long. _____ " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 816009310		County Douglas		County Code 16	
Civil Town/City/ or Village Superior					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
EARTH DRILL															
1	18	2	1												
2	24	3	2												
3	24	1	3												
4	24	2	4												
5	24	2	5												
6	24	2	6												
7	24	2	7												
8	24	2	8												
9	24	2	9												
10	24	2	10												
11	24	2	11												
12	24	2	12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>John F. Riche</i>	Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476	Tel: 715-359-7090 Fax: 715-355-5715
-----------------------------------	--	--

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-36A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/11/2006		Date Drilling Completed 10/11/2006	
WI Unique Well No.		DNR Well ID No.		Common Well Name W-36A	
Final Static Water Level Feet MSL		Surface Elevation 676.2 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)					
State Plane S 44792 N, 1449021 E S/C <input checked="" type="checkbox"/>			Local Grid Location (If applicable)		
SE 1/4 of SW 1/4 of Section 12, T 48 N, R 17 W			Lat. _____ ' _____ " <input type="checkbox"/> N <input type="checkbox"/> E Long. _____ ' _____ " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID 816009810		County Douglas		County Code 16	
Civil Town/City/ or Village Superior					

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	Rock & Gravel FILL											
			2												
			3	Red & Brn Moist CLAY											
1	SS 24	6	3												
			4												
			4												
			4												
			5												
			6												
2	SS 24	12	2												
			2												
			2												
			2												
			7												
			8												
3	SS 24	24	3												
			2												
			2												
			3												
			9												
			10												
4	SS 24	24	3												
			4												
			4												
			2												
			11												
			12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>John R. Rich</i>	Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476	Tel: 715-359-7090 Fax: 715-355-5715
----------------------------------	--	--

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-37A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/11/2006		Date Drilling Completed 10/11/2006	
WI Unique Well No.		DNR Well ID No. W-37A		Final Static Water Level 674.3 Feet MSL	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 544461 N, 1448910 E		Local Grid Location (If applicable)		Borehole Diameter 8.0 Inches	
Facility ID 816009810		County Douglas		County Code 16	
		Civil Town/City/ or Village Superior			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	Red & Brn SILT w/F-C Gravel											
1 SS	24 12	2 2 3 6	3 4	Red & Brn CLAY											
2 SS	24 24	3 3 2 3	5 6												
3 SS	24 24	1 2 3 3	7 8												
4 SS	24 24	1 1 2 3	9 10												
5 SS	24 24	1 1 1	11 12												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *John A. Rich* Firm: **Boart Longyear Company** 101 Alderson Street Schofield, WI 54476
Tel: 715-359-7090 Fax: 715-355-5715

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-38A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/11/2006		Date Drilling Completed 10/11/2006	
WI Unique Well No.		DNR Well ID No.		Common Well Name W-38A	
Final Static Water Level Feet MSL		Surface Elevation 674.5 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 544232 N, 1448767 E S/C/S				Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SW 1/4 of Section 12, T 48N, R 14W		Lat. _____"		Long. _____"	
Facility ID 816009810		County Douglas		County Code 16	
Civil Town/City/ or Village Superior					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				SILT w/Organic Layers											
1 SS	24 8	3 3 2	1	Red & Brn CLAY											
2 SS	24 18	3 3 2	3												
3 SS	24 24	2 2 2	5												
4 SS	24 24	2 3 3	7												
5 SS	24 24	6 6 7	9												
6 SS	24 24	1 1 2	11												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature John R. Rich Firm **Boart Longyear Company** Tel: 715-359-7090
101 Alderson Street Schofield, WI 54476 Fax: 715-355-5715

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-39A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/12/2006		Date Drilling Completed 10/12/2006	
Drilling Method 4 1/4" HSA		WI Unique Well No.		DNR Well ID No.	
Common Well Name W-39A		Final Static Water Level Feet MSL		Surface Elevation 675.5 Feet MSL	
Borehole Diameter 8.0 Inches		Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>)			
State Plane 543900 N, 1448849 E		S/C AS		Local Grid Location (If applicable)	
SE 1/4 of SW 1/4 of Section 12, T 48 N, R 14 W		Lat. _____"		<input type="checkbox"/> N <input type="checkbox"/> E	
Long. _____"		Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W	
Facility ID 816009810		County Douglas		County Code 16	
Civil Town/City/ or Village Superior					

Sample Number and Type	Length Att. & Recovered (ft)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 0	2 5 6 5	1	Rocky FILL										
2 SS	24 6	2 2 3 4	3											
3 SS	24 6	2 3 2 2	5	Red & Brn CLAY										
4 SS	24 24	2 3 3 4	7											
5 SS	24 24	1 1 2 2	9											
6 SS	24 24	2 2 1	11											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *John V. Rich* Firm: **Boart Longyear Company** 101 Alderson Street Schofield, WI 54476
Tel: 715-359-7090 Fax: 715-355-5715

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Koppers Inc. Facility		License/Permit/Monitoring Number		Boring Number W-40A	
Boring Drilled By (Firm name and name of crew chief) Boart Longyear Company - G. Jones		Date Drilling Started 10/12/2006		Date Drilling Completed 10/12/2006	
WI Unique Well No.		DNR Well ID No. W-40A		Final Static Water Level 679.3 Feet MSL	
Boring Location or Local Grid Origin (Check if estimated: <input type="checkbox"/>) State Plane 543912 N, 1449027 E S1/4		Local Grid Location (If applicable)		Borehole Diameter 8.0 Inches	
Facility ID 816009810		County Douglas		Civil Town/City/ or Village Superior	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 6	2 2 3 3	1 2	Red & Brn Silty CLAY										
2 SS	24 18	2 2 3 3	3 4	Red & Brn CLAY										
3 SS	24 24	2 2 2 2	5 6											
4 SS	24 24	2 3 3 2	7 8											
5 SS	24 24	6 6 7 7	9 10											
6 SS	24 24	1 1 2	11 12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>John V. Rich</i>	Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476	Tel: 715-359-7090 Fax: 715-355-5715
----------------------------------	--	--

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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name W-35A
Facility License, Permit or Monitoring No. 816009810	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. " ' " Long. " ' " or St. Plane 577310 ft. N. 1449487 ft. E. S/C (N)	Wis. Unique Well No. / DNR Well Number
Facility ID	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 12, T. 48 N, R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/10/2006
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>675.3</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
C. Land surface elevation <u>672.5</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attach analysis): _____</p> </div>	
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Gravel <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
G. Filter pack, top _____ ft. MSL or <u>2.8</u> ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	7. Fine sand material: Manufacturer, product name and mesh size a. _____ #7 Badger _____ b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. _____ #40 Badger _____ b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or <u>14.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
L. Borehole, diameter <u>8.0</u> in.	b. Manufacturer <u>Boart Longyear Company</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
M. O.D. well casing <u>2.37</u> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature John R. Rich Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476 Tel: 715-359-7090 Fax: 715-355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name W-36A
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane <u>54792</u> ft. N, <u>1449022</u> ft. E. S/C <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID 816009810	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 12, T. 48N, R. 14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/11/2006
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>678.6</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>676.2</u> ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attach analysis): _____</p> </div>		
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>	7. Fine sand material: Manufacturer, product name and mesh size a. _____ #7 Badger b. Volume added _____ ft ³
G. Filter pack, top _____ ft. MSL or <u>2.8</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. _____ #40 Badger b. Volume added _____ ft ³	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	b. Manufacturer <u>Boart Longyear Company</u> c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or <u>14.0</u> ft.		
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.		
L. Borehole, diameter <u>8.0</u> in.		
M. O.D. well casing <u>2.37</u> in.		
N. I.D. well casing <u>2.06</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature John R. Rich Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476 Tel: 715-359-7090 Fax: 715-355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name W-37A
Facility License, Permit or Monitoring No. 816009810	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane <u>544461</u> ft. N. <u>1748910</u> ft. E. S/C/ <input checked="" type="checkbox"/> W	Wis. Unique Well No/DNR Well Number
Facility ID	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 12, T. 48N, R. 14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/11/2006
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>676.7</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>674.3</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis): _____</p> </div>	
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ ft. MSL or <u>2.8</u> ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	7. Fine sand material: Manufacturer, product name and mesh size a. #7 Badger b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. #40 Badger b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or <u>14.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>8.0</u> in.	b. Manufacturer Boart Longyear Company c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
M. O.D. well casing <u>2.37</u> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature John R. Rich Firm Boart Longyear Company Tel: 715-359-7090
 101 Alderson Street Schofield, WI 54476 Fax: 715-355-5715

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Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name W-38A
Facility License, Permit or Monitoring No. 816009810	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane S44232 ft. N, 1448767 ft. E. S/C/N	Wis. Unique Well No. _____ DNR Well Number _____
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 12 T. 48 N. R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/11/2006
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation 676.9 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 674.5 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 0.5 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
<div style="border: 1px solid black; padding: 5px;"> <p>12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attach analysis): _____</p> </div>	
E. Bentonite seal, top _____ ft. MSL or 0.5 ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 2.5 ft.	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ ft. MSL or 2.8 ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 3.0 ft.	7. Fine sand material: Manufacturer, product name and mesh size a. #7 Badger b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or 13.0 ft.	8. Filter pack material: Manufacturer, product name and mesh size a. #40 Badger b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or 14.0 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or 14.0 ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter 8.0 in.	b. Manufacturer Boart Longyear Company c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
M. O.D. well casing 2.37 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing 2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature John R. Rich Firm **Boart Longyear Company** 101 Alderson Street Schofield, WI 54476 Tel: 715-359-7090 Fax: 715-355-5715

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Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name W-39A
Facility License, Permit or Monitoring No. 816009810	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane 543900 ft. N, 1448849 ft. E. S/C <input checked="" type="checkbox"/>	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 12, T. 48 N, R. 14 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/12/2006
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>678.5</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: _____ Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>675.8</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	3. Surface seal: _____ Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Drilling method used: _____ Rotary <input type="checkbox"/> 50 _____ Hollow Stem Auger <input checked="" type="checkbox"/> 41 _____ Other <input type="checkbox"/>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 _____ Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____	
17. Source of water (attach analysis): _____	
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 30 Sand _____ Other <input checked="" type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: _____ Tremie <input type="checkbox"/> 01 _____ Tremie pumped <input type="checkbox"/> 02 _____ Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ ft. MSL or <u>2.8</u> ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	7. Fine sand material: Manufacturer, product name and mesh size a. _____ #7 Badger _____ b. Volume added _____ ft ³
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. _____ #40 Badger _____ b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or <u>14.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 _____ Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	10. Screen material: _____ PVC a. Screen Type: _____ Factory cut <input checked="" type="checkbox"/> 11 _____ Continuous slot <input type="checkbox"/> 01 _____ Other <input type="checkbox"/>
L. Borehole, diameter <u>8.0</u> in.	b. Manufacturer <u>Boart Longyear Company</u> c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.
M. O.D. well casing <u>2.37</u> in.	11. Backfill material (below filter pack): _____ None <input checked="" type="checkbox"/> 14 _____ Other <input type="checkbox"/>
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature John R. Rich Firm Boart Longyear Company 101 Alderson Street Schofield, WI 54476
Tel: 715-359-7090 Fax: 715-355-5715

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Facility/Project Name Koppers Inc. Facility	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name W-40A
Facility License, Permit or Monitoring No. 816004816	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or St. Plane 543912 ft. N, 1449027 ft. E. SIC/10	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 12, T. 48 N, R. 19 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 10/12/2006
Type of Well Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) G. Jones Boart Longyear Company

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>676.9</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft.
C. Land surface elevation <u>674.3</u> ft. MSL	c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
D. Surface seal, bottom _____ ft. MSL or <u>0.5</u> ft.	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
12. USC classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Sand <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9	f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis): _____	7. Fine sand material: Manufacturer, product name and mesh size a. #7 Badger b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. #40 Badger b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or <u>2.5</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <u>2.8</u> ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>3.0</u> ft.	b. Manufacturer Boart Longyear Company c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
I. Well bottom _____ ft. MSL or <u>13.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>14.0</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>14.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>2.06</u> in.	

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Signature John R. Rich Firm Boart Longyear Company
101 Alderson Street Schofield, WI 54476 Tel: 715-359-7090 Fax: 715-355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Koppers Inc.</u>	County Name <u>Douglas</u>	Well Name <u>W-35A</u>	
Facility License, Permit or Monitoring Number	County Code <u>16</u>	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 30 min.
4. Depth of well (from top of well casing) 15.4 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 1.0 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | | |
|--|---------------------------|--------------------------|
| | <u>Before Development</u> | <u>After Development</u> |
|--|---------------------------|--------------------------|
11. Depth to Water (from top of well casing)
- a. 14.00 ft. DRY ft.
- Date b. 01/27/2007 01/27/2007
m m d d y y y y m m d d y y y y
- Time c. 14:00 a.m. 14:30 p.m.
12. Sediment in well bottom _____ inches _____ inches
13. Water clarity Clear 10 Turbid 15
(Describe) (Describe)
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Bessingpas
Firm: ARCADIS BBL

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingpas

Print Name: David Bessingpas

Firm: ARCADIS BBL

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Koppers Inc.</u>	County Name <u>Douglas</u>	Well Name <u>W-36A</u>
Facility License, Permit or Monitoring Number	County Code <u>16</u>	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well _____ min.
4. Depth of well (from top of well casing) 15.7 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 40.0 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | | |
|--|--------------------|-------------------|
| | Before Development | After Development |
|--|--------------------|-------------------|
11. Depth to Water (from top of well casing)
- a. 4.55 ft. _____ ft.
- Date
- b. 10/12/2006 10/12/2006
m m d d y y y y m m d d y y y y
- Time
- c. _____ : _____ a.m. _____ : _____ p.m.
12. Sediment in well bottom _____ inches _____ inches
13. Water clarity
- | | |
|---|--|
| Clear <input type="checkbox"/> 10 | Clear <input checked="" type="checkbox"/> 20 |
| Turbid <input checked="" type="checkbox"/> 15 | Turbid <input type="checkbox"/> 25 |
- (Describe) _____ (Describe) _____
14. Total suspended solids _____ mg/l _____ mg/l
15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Mack

Firm: ARCADIS BBL

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingos

Print Name: David Bessingos

Firm: ARCADIS BBL

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-36A</i>
Facility License, Permit or Monitoring Number	County Code <i>16</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 25 min.

4. Depth of well (from top of well casing) 15.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 5.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>4.70</u> ft.	<u>5.20</u> ft.

Date b. 11/22/2006 11/22/2006
m m d d y y y y m m d d y y y y

Time c. 09:05 a.m. 09:30 p.m.

12. Sediment in well bottom _____ inches _____ inches

13. Water clarity

Clear <input type="checkbox"/> 10	Clear <input type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input checked="" type="checkbox"/> 25
(Describe) <u>brown</u>	(Describe) <u>tan</u>
<u>very turbid</u>	<u>slightly turbid</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Bessingpas
Firm: ARCADIS BBL

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingpas

Print Name: David Bessingpas

Firm: ARCADIS BBL

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-37A</i>
Facility License, Permit or Monitoring Number	County Code <i>16</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) *15.4* ft.

5. Inside diameter of well *2.00* in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well *4.0* gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water Before Development After Development
(from top of well casing) a. *12.4* ft. _____ ft.
Date b. *10/12/2006* *10/12/2006*
m m d d y y y y m m d d y y y y
Time c. _____: _____: _____: _____:
 a.m. a.m.
 p.m. p.m.

12. Sediment in well _____ inches _____ inches
bottom

13. Water clarity Clear 10 Clear 20
Turbid 15 Turbid 25
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: *David* Last Name: *Mack*
Firm: *ARCADIS BBL*

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *David Bessingas*
Print Name: *David Bessingas*
Firm: *ARCADIS BBL*

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-37A</i>
Facility License, Permit or Monitoring Number	County Code <i>16</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____ _____

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 15.3 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 2.5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water Before Development After Development
(from top of well casing) a. 5.50 ft. 8.50 ft.

Date 11/22/2006 11/22/2006
m m d d y y y y m m d d y y y y

Time 09:30 a.m. 10:00 a.m.
 p.m. p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity Clear 10 Turbid 20
Turbid 15 Turbid 25
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Bessingpas

Firm: ARCADIS BBL

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingpas

Print Name: David Bessingpas

Firm: ARCADIS BBL

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-38A</i>
Facility License, Permit or Monitoring Number	County Code <i>10</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 15.6 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 3.0 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water Before Development After Development
(from top of well casing) a. 9.50 ft. DRY ft.

Date b. 11/22/2006 11/23/2006
m m d d y y y y m m d d y y y y

Time c. 10:50 a.m. 11:30 a.m.
 p.m. p.m.

12. Sediment in well bottom _____ inches _____ inches

13. Water clarity Clear 10 Turbid 25
(Describe) (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Bessingpas
Firm: ARCADIS BBL

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingpas
Print Name: David Bessingpas
Firm: ARCADIS BBL

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-39A</i>
Facility License, Permit or Monitoring Number	County Code <i>16</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____
3. Time spent developing well 30 min.
4. Depth of well (from top of well casing) 16.5 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 5.0 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>8.60</u> ft.	<u>DRY</u> ft.
Date	b. <u>11/22/2006</u> m m d d y y y y	<u>11/22/2006</u> m m d d y y y y
Time	c. <u>10:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:50</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>David</u>	Last Name: <u>Bessingas</u>
Firm:	<u>ARCADIS BBL</u>	

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingas

Print Name: David Bessingas

Firm: ARCADIS BBL

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <i>Koppers Inc.</i>	County Name <i>Douglas</i>	Well Name <i>W-40A</i>
Facility License, Permit or Monitoring Number	County Code <i>16</i>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 20 min.

4. Depth of well (from top of well casing) 16.2 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 2.5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>11.50</u> ft.	<u>DRY</u> ft.
Date	b. <u>11/22/2006</u> m m d d y y y y	<u>11/22/2006</u> m m d d y y y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: David Last Name: Bessingpas

Firm: ARCADIS BBL

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: David Bessingpas

Print Name: David Bessingpas

Firm: ARCADIS BBL

Facility Name		Facility ID Number		License, Permit or Monitoring No.		Date		Completed By (Name and Firm)													
Koppers Inc.		816009810				8/15/07		David Bessingpas ARCADIS BSL													
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir.		Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
				N	S		Diam.	Type	Top of Well Casing	Ground Surface	MSL (✓)	Site Datum (✓)	Screen Top	Initial Groundwater	Well Depth						
	W-35A		547309.8	N		10/11/06	2	P	675.30	672.53	X		5.77	14.00	15.77	10	11/mw	A		S	0
			1449487	E																	
	W-36A		544791.7	N		10/11/06	2	P	678.59	676.15	X		5.44	4.55	15.44	10	11/mw	A		S	0
			1449021	E																	
	W-37A		544461.4	N		10/11/06	2	P	676.67	674.25	X		5.42	12.41	15.42	10	11/mw	A		S	0
			1448910	E																	
	W-38A		544232.1	N		10/11/06	2	P	676.90	674.47	X		5.43	9.50	15.43	10	11/mw	A		S	0
			1448767	E																	
	W-39A		543900.4	N		10/12/06	2	P	678.53	675.77	X		5.76	8.00	15.76	10	11/mw	A		S	0
			1448849	E																	
	W-40A		543911.6	N		10/12/06	2	P	676.99	674.33	X		5.61	11.50	15.61	10	11/mw	A		S	0
			1449027	E																	

Location Coordinates Are:
 State Plane Coordinate Local Grid System
 Northern
 Central
 Southern

Grid Origin Location: (Check if estimated:)
 Lat. _____ ° _____ ' _____ " Long. _____ ° _____ ' _____ " or
 St. Plane _____ ft. N. _____ ft. E. S/C/N Zone _____

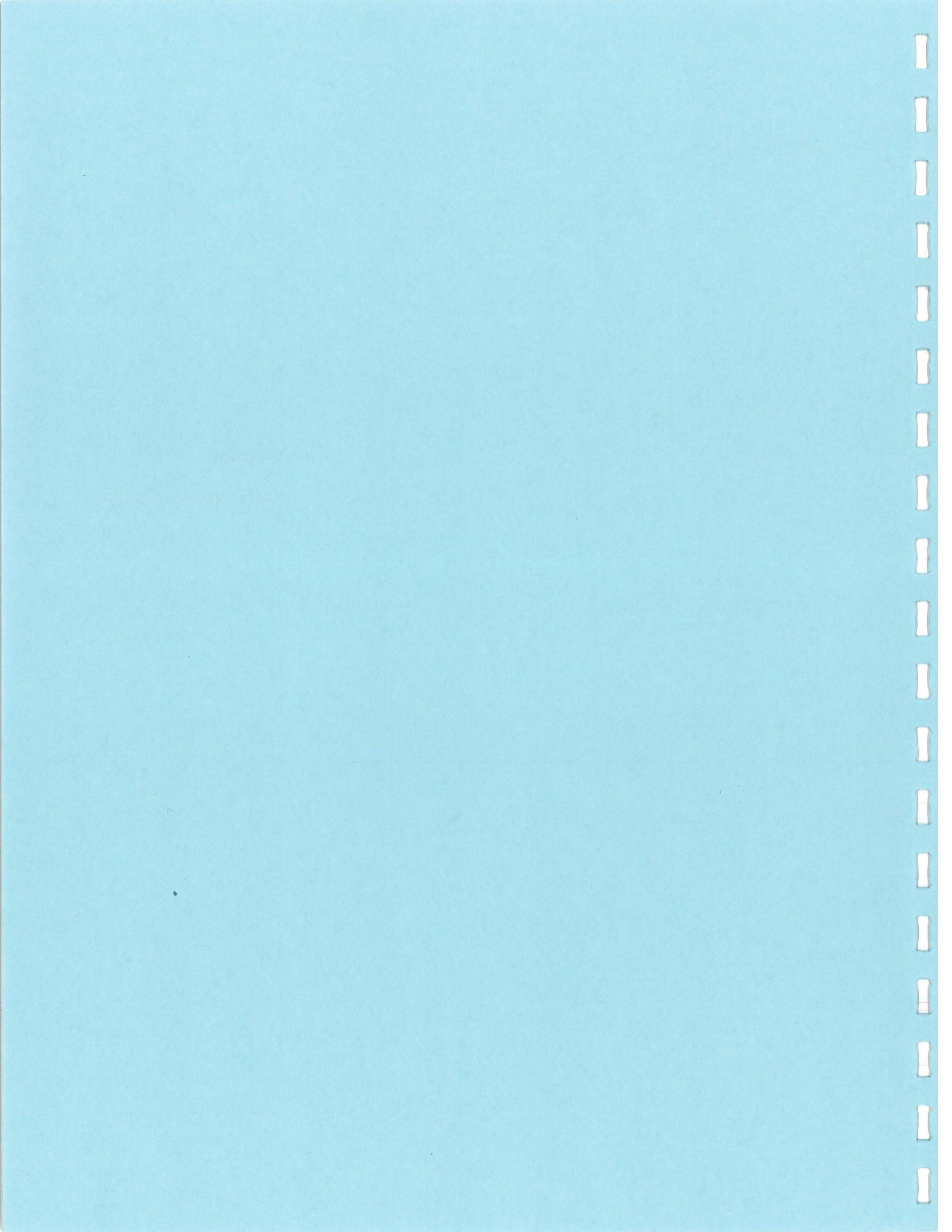
Remarks: _____

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

ARCADIS BBL

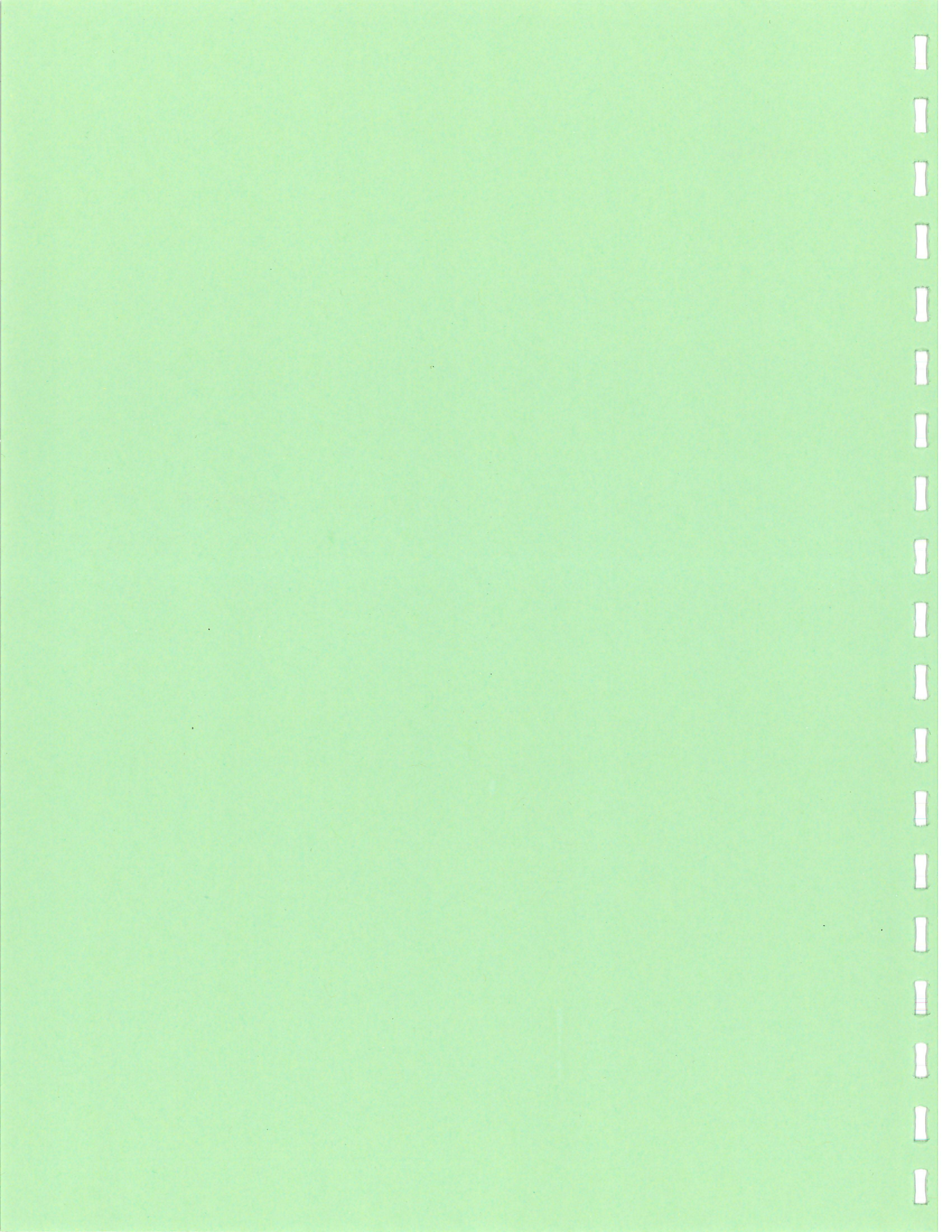
Attachment 3

Laboratory Analytical Data Sheets



ARCADIS BBL

VOCs and SVOCs





April 06, 2007

Beazer East, Inc.
Attn: Ms. Angie Gatchie c/o FTS
200 Third Avenue
Carnegie, PA 15106

Project: Superior GW - WI Cert. #999472650

Dear Ms. Angie Gatchie c/o FTS,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0610522	10/27/2006	Laboratory Services
0610523	10/25/2006	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC); any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Gary L. Wood
Project Chemist

Enclosures(s)

The total number of pages in this report, including this page, is 16.



ANALYTICAL REPORT

Client: **Beazer East, Inc.** Work Order: **0610522**
Project: Superior GW - WI Cert. #999472650 Description: Laboratory Services
Client Sample ID: **W-39A** Sampled: 10/25/06 10:00
Lab Sample ID: **0610522-03** Sampled By: F&T
Matrix: Water Received: 10/27/06 08:45
Unit: ug/L Prepared: 10/30/06 By: ASC
Dilution Factor: 1 Date Analyzed: 11/02/06 By: DMC
QC Batch: 0612628 Analytical Batch: 6110265

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.070	0.021
208-96-8	Acenaphthylene	ND U	0.13	0.038
120-12-7	Anthracene	ND U	0.099	0.030
56-55-3	Benzo(a)anthracene	ND U	0.19	0.058
50-32-8	Benzo(a)pyrene	ND U	0.10	0.031
205-99-2	Benzo(b)fluoranthene	ND U	0.12	0.038
207-08-9	Benzo(k)fluoranthene	ND U	0.16	0.048
191-24-2	Benzo(g,h,i)perylene	ND U	0.099	0.030
59-50-7	4-Chloro-3-methylphenol	ND U	0.081	0.024
95-57-8	2-Chlorophenol	ND U	0.094	0.028
218-01-9	Chrysene	ND U	0.099	0.030
53-70-3	Dibenz(a,h)anthracene	ND U	0.062	0.019
120-83-2	2,4-Dichlorophenol	ND U	0.074	0.022
105-67-9	2,4-Dimethylphenol	ND U	1.8	0.54
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.79	0.24
51-28-5	2,4-Dinitrophenol	ND U	0.69	0.21
206-44-0	Fluoranthene	ND U	0.11	0.033
86-73-7	Fluorene	ND U	0.089	0.027
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.069	0.021
91-57-6	2-Methylnaphthalene	ND U	0.074	0.022
90-12-0	1-Methylnaphthalene	ND U	0.092	0.028
95-48-7	2-Methylphenol	ND U	1.5	0.45
106-44-5	4-Methylphenol	ND U	1.3	0.38
91-20-3	Naphthalene	ND U	0.073	0.022
100-02-7	4-Nitrophenol	ND U	1.5	0.44
88-75-5	2-Nitrophenol	ND U	0.12	0.038
87-86-5	Pentachlorophenol	ND U	0.20	0.061
85-01-8	Phenanthrene	ND U	0.11	0.033
108-95-2	Phenol	ND U	0.18	0.055
129-00-0	Pyrene	ND U	0.14	0.044
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.15	0.047

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-39A**
Lab Sample ID: **0610522-03**
Matrix: Water
Unit: ug/L
Dilution Factor: 1
QC Batch: 0612628

Work Order: **0610522**
Description: Laboratory Services
Sampled: 10/25/06 10:00
Sampled By: F&T
Received: 10/27/06 08:45
Prepared: 10/30/06 By: ASC
Date Analyzed: 11/02/06 By: DMC
Analytical Batch: 6110265

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.7	0.50
88-06-2	2,4,6-Trichlorophenol	ND U	0.083	0.025
95-95-4	2,4,5-Trichlorophenol	ND U	0.100	0.030
Surrogates		% Recovery		Control Limits
<i>2-Fluorophenol</i>		43		<i>16-82</i>
<i>Phenol-d6</i>		27		<i>11-69</i>
<i>Nitrobenzene-d5</i>		66		<i>26-116</i>
<i>Nitrobenzene-d5</i>		66		<i>26-116</i>
<i>2-Fluorobiphenyl</i>		52		<i>37-123</i>
<i>2-Fluorobiphenyl</i>		52		<i>37-123</i>
<i>2,4,6-Tribromophenol</i>		75		<i>32-127</i>
<i>o-Terphenyl</i>		69		<i>30-119</i>
<i>o-Terphenyl</i>		69		<i>30-119</i>



ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-38A**
Lab Sample ID: **0610522-04**
Matrix: Water
Unit: ug/L
Dilution Factor: 1
QC Batch: 0612628

Work Order: **0610522**
Description: Laboratory Services
Sampled: 10/25/06 09:00
Sampled By: F&T
Received: 10/27/06 08:45
Prepared: 10/30/06 By: ASC
Date Analyzed: 11/02/06 By: DMC
Analytical Batch: 6110265

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	NDU	0.070	0.021
208-96-8	Acenaphthylene	NDU	0.13	0.038
120-12-7	Anthracene	0.054J	0.099	0.030
56-55-3	Benzo(a)anthracene	NDU	0.19	0.058
50-32-8	Benzo(a)pyrene	0.073J	0.10	0.031
205-99-2	Benzo(b)fluoranthene	0.21	0.12	0.038
207-08-9	Benzo(k)fluoranthene	0.055J	0.16	0.048
191-24-2	Benzo(g,h,i)perylene	NDU	0.099	0.030
59-50-7	4-Chloro-3-methylphenol	NDU	0.081	0.024
95-57-8	2-Chlorophenol	NDU	0.094	0.028
218-01-9	Chrysene	0.080J	0.099	0.030
53-70-3	Dibenz(a,h)anthracene	NDU	0.062	0.019
120-83-2	2,4-Dichlorophenol	NDU	0.074	0.022
105-67-9	2,4-Dimethylphenol	NDU	1.8	0.54
534-52-1	4,6-Dinitro-2-methylphenol	NDU	0.79	0.24
51-28-5	2,4-Dinitrophenol	NDU	0.69	0.21
206-44-0	Fluoranthene	0.079J	0.11	0.033
86-73-7	Fluorene	NDU	0.089	0.027
193-39-5	Indeno(1,2,3-cd)pyrene	0.038J	0.069	0.021
91-57-6	2-Methylnaphthalene	NDU	0.074	0.022
90-12-0	1-Methylnaphthalene	NDU	0.092	0.028
95-48-7	2-Methylphenol	NDU	1.5	0.45
106-44-5	4-Methylphenol	NDU	1.3	0.38
91-20-3	Naphthalene	NDU	0.073	0.022
100-02-7	4-Nitrophenol	NDU	1.5	0.44
88-75-5	2-Nitrophenol	NDU	0.12	0.038
87-86-5	Pentachlorophenol	NDU	0.20	0.061
85-01-8	Phenanthrene	NDU	0.11	0.033
108-95-2	Phenol	0.068J	0.18	0.055
129-00-0	Pyrene	0.11J	0.14	0.044
58-90-2	2,3,4,6-Tetrachlorophenol	NDU	0.15	0.047

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-38A**
 Lab Sample ID: **0610522-04**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0612628

Work Order: **0610522**
 Description: Laboratory Services
 Sampled: 10/25/06 09:00
 Sampled By: F&T
 Received: 10/27/06 08:45
 Prepared: 10/30/06 By: ASC
 Date Analyzed: 11/02/06 By: DMC
 Analytical Batch: 6110265

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.7	0.50
88-06-2	2,4,6-Trichlorophenol	ND U	0.083	0.025
95-95-4	2,4,5-Trichlorophenol	ND U	0.100	0.030
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	36	<i>16-82</i>	
	<i>Phenol-d6</i>	26	<i>11-69</i>	
	<i>Nitrobenzene-d5</i>	66	<i>26-116</i>	
	<i>Nitrobenzene-d5</i>	66	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	52	<i>37-123</i>	
	<i>2-Fluorobiphenyl</i>	52	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	78	<i>32-127</i>	
	<i>o-Terphenyl</i>	70	<i>30-119</i>	
	<i>o-Terphenyl</i>	70	<i>30-119</i>	



ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-14A**
Lab Sample ID: **0610523-09**
Matrix: Water
Unit: ug/L
Dilution Factor: 1
QC Batch: 0612628

Work Order: **0610523**
Description: Laboratory Services
Sampled: 10/23/06 14:30
Sampled By: Dave Hreha
Received: 10/25/06 08:30
Prepared: 10/30/06 By: ASC
Date Analyzed: 11/01/06 By: DMC
Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	0.025 J	0.070	0.021
208-96-8	Acenaphthylene	NDU	0.13	0.038
120-12-7	Anthracene	0.26	0.099	0.030
56-55-3	Benzo(a)anthracene	NDU	0.19	0.058
50-32-8	Benzo(a)pyrene	NDU	0.10	0.031
205-99-2	Benzo(b)fluoranthene	NDU	0.12	0.038
207-08-9	Benzo(k)fluoranthene	NDU	0.16	0.048
191-24-2	Benzo(g,h,i)perylene	NDU	0.099	0.030
59-50-7	4-Chloro-3-methylphenol	NDU	0.081	0.024
95-57-8	2-Chlorophenol	NDU	0.094	0.028
218-01-9	Chrysene	NDU	0.099	0.030
53-70-3	Dibenz(a,h)anthracene	NDU	0.062	0.019
120-83-2	2,4-Dichlorophenol	0.29	0.074	0.022
105-67-9	2,4-Dimethylphenol	NDU	1.8	0.54
534-52-1	4,6-Dinitro-2-methylphenol	NDU	0.79	0.24
51-28-5	2,4-Dinitrophenol	NDU	0.69	0.21
206-44-0	Fluoranthene	0.23	0.11	0.033
86-73-7	Fluorene	NDU	0.089	0.027
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.069	0.021
91-57-6	2-Methylnaphthalene	NDU	0.074	0.022
90-12-0	1-Methylnaphthalene	NDU	0.092	0.028
95-48-7	2-Methylphenol	NDU	1.5	0.45
106-44-5	4-Methylphenol	NDU	1.3	0.38
91-20-3	Naphthalene	NDU	0.073	0.022
100-02-7	4-Nitrophenol	NDU	1.5	0.44
88-75-5	2-Nitrophenol	NDU	0.12	0.038
87-86-5	Pentachlorophenol	0.66	0.20	0.061
85-01-8	Phenanthrene	0.047 J	0.11	0.033
108-95-2	Phenol	0.081 J	0.18	0.055
129-00-0	Pyrene	0.28	0.14	0.044
58-90-2	2,3,4,6-Tetrachlorophenol	0.13 J	0.15	0.047

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ANALYTICAL REPORT

Client: Beazer East, Inc.	Work Order: 0610523
Project: Superior GW - WI Cert. #999472650	Description: Laboratory Services
Client Sample ID: W-14A	Sampled: 10/23/06 14:30
Lab Sample ID: 0610523-09	Sampled By: Dave Hreha
Matrix: Water	Received: 10/25/06 08:30
Unit: ug/L	Prepared: 10/30/06 By: ASC
Dilution Factor: 1	Date Analyzed: 11/01/06 By: DMC
QC Batch: 0612628	Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	1.7	0.50
88-06-2	2,4,6-Trichlorophenol	NDU	0.083	0.025
95-95-4	2,4,5-Trichlorophenol	0.032J	0.100	0.030
Surrogates		% Recovery	Control Limits	
<i>2-Fluorophenol</i>		43	<i>16-82</i>	
<i>Phenol-d6</i>		28	<i>11-69</i>	
<i>Nitrobenzene-d5</i>		74	<i>26-116</i>	
<i>Nitrobenzene-d5</i>		74	<i>26-116</i>	
<i>2-Fluorobiphenyl</i>		73	<i>37-123</i>	
<i>2-Fluorobiphenyl</i>		73	<i>37-123</i>	
<i>2,4,6-Tribromophenol</i>		71	<i>32-127</i>	
<i>o-Terphenyl</i>		78	<i>30-119</i>	
<i>o-Terphenyl</i>		78	<i>30-119</i>	



ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-16A**
Lab Sample ID: **0610523-10**
Matrix: Water
Unit: ug/L
Dilution Factor: 2
QC Batch: 0613051

Work Order: **0610523**
Description: Laboratory Services
Sampled: 10/23/06 15:50
Sampled By: Dave Hreha
Received: 10/25/06 08:30
Prepared: 11/06/06 By: LEW
Date Analyzed: 11/06/06 By: LEW
Analytical Batch: 6110649

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	110	0.41	0.12
Surrogates		% Recovery	Control Limits	
aaa-Trifluorotoluene		102	90-113	



ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-17A**
Lab Sample ID: **0610523-11**
Matrix: Water
Unit: ug/L
Dilution Factor: 20
QC Batch: 0612628

Work Order: **0610523**
Description: Laboratory Services
Sampled: 10/24/06 09:20
Sampled By: Dave Hreha
Received: 10/25/06 08:30
Prepared: 10/30/06 By: ASC
Date Analyzed: 10/31/06 By: DMC
Analytical Batch: 6103146

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	91	1.4	0.43
208-96-8	Acenaphthylene	ND U	2.5	0.76
120-12-7	Anthracene	7.0	2.0	0.60
56-55-3	Benzo(a)anthracene	ND U	3.8	1.2
50-32-8	Benzo(a)pyrene	ND U	2.0	0.62
205-99-2	Benzo(b)fluoranthene	ND U	2.5	0.75
207-08-9	Benzo(k)fluoranthene	ND U	3.2	0.96
191-24-2	Benzo(g,h,i)perylene	ND U	2.0	0.60
59-50-7	4-Chloro-3-methylphenol	ND U	1.6	0.49
95-57-8	2-Chlorophenol	ND U	1.9	0.57
218-01-9	Chrysene	ND U	2.0	0.60
53-70-3	Dibenz(a,h)anthracene	ND U	1.2	0.38
120-83-2	2,4-Dichlorophenol	ND U	1.5	0.45
105-67-9	2,4-Dimethylphenol	34 J	36	11
534-52-1	4,6-Dinitro-2-methylphenol	ND U	16	4.8
51-28-5	2,4-Dinitrophenol	ND U	14	4.2
206-44-0	Fluoranthene	7.6	2.2	0.66
86-73-7	Fluorene	38	1.8	0.54
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	1.4	0.42
91-57-6	2-Methylnaphthalene	0.67 J	1.5	0.45
90-12-0	1-Methylnaphthalene	41	1.8	0.56
95-48-7	2-Methylphenol	120	30	9.0
* 106-44-5	4-Methylphenol	190	25	7.6
91-20-3	Naphthalene	79	1.5	0.44
100-02-7	4-Nitrophenol	ND U	29	8.8
88-75-5	2-Nitrophenol	ND U	2.5	0.75
87-86-5	Pentachlorophenol	ND U	4.0	1.2
85-01-8	Phenanthrene	27	2.2	0.65
108-95-2	Phenol	170	3.6	1.1
129-00-0	Pyrene	3.4	2.9	0.88
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	3.1	0.93

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*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-26A**
Lab Sample ID: **0610523-12**
Matrix: Water
Unit: ug/L
Dilution Factor: 1
QC Batch: 0612628

Work Order: **0610523**
Description: Laboratory Services
Sampled: 10/24/06 11:30
Sampled By: Dave Hreha
Received: 10/25/06 08:30
Prepared: 10/30/06 By: ASC
Date Analyzed: 11/01/06 By: DMC
Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	NDU	0.070	0.021
208-96-8	Acenaphthylene	NDU	0.13	0.038
120-12-7	Anthracene	NDU	0.099	0.030
56-55-3	Benzo(a)anthracene	NDU	0.19	0.058
50-32-8	Benzo(a)pyrene	NDU	0.10	0.031
205-99-2	Benzo(b)fluoranthene	NDU	0.12	0.038
207-08-9	Benzo(k)fluoranthene	NDU	0.16	0.048
191-24-2	Benzo(g,h,i)perylene	NDU	0.099	0.030
59-50-7	4-Chloro-3-methylphenol	NDU	0.081	0.024
95-57-8	2-Chlorophenol	NDU	0.094	0.028
218-01-9	Chrysene	NDU	0.099	0.030
53-70-3	Dibenz(a,h)anthracene	NDU	0.062	0.019
120-83-2	2,4-Dichlorophenol	NDU	0.074	0.022
105-67-9	2,4-Dimethylphenol	NDU	1.8	0.54
534-52-1	4,6-Dinitro-2-methylphenol	NDU	0.79	0.24
51-28-5	2,4-Dinitrophenol	NDU	0.69	0.21
206-44-0	Fluoranthene	NDU	0.11	0.033
86-73-7	Fluorene	NDU	0.089	0.027
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.069	0.021
91-57-6	2-Methylnaphthalene	NDU	0.074	0.022
90-12-0	1-Methylnaphthalene	NDU	0.092	0.028
95-48-7	2-Methylphenol	NDU	1.5	0.45
106-44-5	4-Methylphenol	NDU	1.3	0.38
91-20-3	Naphthalene	NDU	0.073	0.022
100-02-7	4-Nitrophenol	NDU	1.5	0.44
88-75-5	2-Nitrophenol	NDU	0.12	0.038
87-86-5	Pentachlorophenol	NDU	0.20	0.061
85-01-8	Phenanthrene	NDU	0.11	0.033
108-95-2	Phenol	NDU	0.18	0.055

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-26A**
 Lab Sample ID: **0610523-12**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0612628

Work Order: **0610523**
 Description: Laboratory Services
 Sampled: 10/24/06 11:30
 Sampled By: Dave Hreha
 Received: 10/25/06 08:30
 Prepared: 10/30/06 By: ASC
 Date Analyzed: 11/01/06 By: DMC
 Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
129-00-0	Pyrene	NDU	0.14	0.044
58-90-2	2,3,4,6-Tetrachlorophenol	NDU	0.15	0.047
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	1.7	0.50
88-06-2	2,4,6-Trichlorophenol	NDU	0.083	0.025
95-95-4	2,4,5-Trichlorophenol	NDU	0.100	0.030
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	41	<i>16-82</i>	
	<i>Phenol-d6</i>	27	<i>11-69</i>	
	<i>Nitrobenzene-d5</i>	63	<i>26-116</i>	
	<i>Nitrobenzene-d5</i>	63	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	58	<i>37-123</i>	
	<i>2-Fluorobiphenyl</i>	58	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	75	<i>32-127</i>	
	<i>o-Terphenyl</i>	75	<i>30-119</i>	
	<i>o-Terphenyl</i>	75	<i>30-119</i>	



ANALYTICAL REPORT

Client: **Beazer East, Inc.**
Project: Superior GW - WI Cert. #999472650
Client Sample ID: **W-36A**
Lab Sample ID: **0610523-13**
Matrix: Water
Unit: ug/L
Dilution Factor: 2
QC Batch: 0612709

Work Order: **0610523**
Description: Laboratory Services
Sampled: 10/24/06 13:45
Sampled By: Dave Hreha
Received: 10/25/06 08:30
Prepared: 10/31/06 By: ASC
Date Analyzed: 11/01/06 By: DMC
Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	2.2	0.14	0.043
208-96-8	Acenaphthylene	0.16 J	0.25	0.076
120-12-7	Anthracene	0.93	0.20	0.060
56-55-3	Benzo(a)anthracene	NDU	0.38	0.12
50-32-8	Benzo(a)pyrene	NDU	0.20	0.062
205-99-2	Benzo(b)fluoranthene	0.16 J	0.25	0.075
207-08-9	Benzo(k)fluoranthene	NDU	0.32	0.096
191-24-2	Benzo(g,h,i)perylene	NDU	0.20	0.060
59-50-7	4-Chloro-3-methylphenol	0.059 J	0.16	0.049
95-57-8	2-Chlorophenol	0.23	0.19	0.057
218-01-9	Chrysene	0.19 J	0.20	0.060
53-70-3	Dibenz(a,h)anthracene	NDU	0.12	0.038
120-83-2	2,4-Dichlorophenol	1.3	0.15	0.045
105-67-9	2,4-Dimethylphenol	NDU	3.6	1.1
534-52-1	4,6-Dinitro-2-methylphenol	NDU	1.6	0.48
51-28-5	2,4-Dinitrophenol	NDU	1.4	0.42
206-44-0	Fluoranthene	1.0	0.22	0.066
86-73-7	Fluorene	1.2	0.18	0.054
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.14	0.042
91-57-6	2-Methylnaphthalene	1.4	0.15	0.045
90-12-0	1-Methylnaphthalene	2.4	0.18	0.056
95-48-7	2-Methylphenol	NDU	3.0	0.90
106-44-5	4-Methylphenol	NDU	2.5	0.76
91-20-3	Naphthalene	0.56	0.15	0.044
100-02-7	4-Nitrophenol	NDU	2.9	0.88
88-75-5	2-Nitrophenol	0.084 J	0.25	0.075
* 87-86-5	Pentachlorophenol	31	0.40	0.12
85-01-8	Phenanthrene	0.49	0.22	0.065
108-95-2	Phenol	0.13 J	0.36	0.11
129-00-0	Pyrene	0.94	0.29	0.088
58-90-2	2,3,4,6-Tetrachlorophenol	3.4	0.31	0.093

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*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-36A**
 Lab Sample ID: **0610523-13**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 2
 QC Batch: 0612709

Work Order: **0610523**
 Description: Laboratory Services
 Sampled: 10/24/06 13:45
 Sampled By: Dave Hreha
 Received: 10/25/06 08:30
 Prepared: 10/31/06 By: ASC
 Date Analyzed: 11/01/06 By: DMC
 Analytical Batch: 6110146

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	3.3	1.0
88-06-2	2,4,6-Trichlorophenol	0.28	0.17	0.050
95-95-4	2,4,5-Trichlorophenol	0.24	0.20	0.061
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	36	<i>16-82</i>	
	<i>Phenol-d6</i>	25	<i>11-69</i>	
	<i>Nitrobenzene-d5</i>	60	<i>26-116</i>	
	<i>Nitrobenzene-d5</i>	60	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	39	<i>37-123</i>	
	<i>2-Fluorobiphenyl</i>	39	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	58	<i>32-127</i>	
	<i>o-Terphenyl</i>	52	<i>30-119</i>	
	<i>o-Terphenyl</i>	52	<i>30-119</i>	

STATEMENT OF DATA QUALIFICATIONS**Semivolatile Organic Compounds by EPA Method 8270C**

Qualification: The MS or MSD recovery, but not both, was outside the control limit. The RPD is within the control limit. The unspiked sample result is not qualified.

Analysis: USEPA-8270C

Sample/Analyte: 0610523-13 W-36A Pentachlorophenol

Qualification: 3-Methylphenol cannot be resolved from 4-Methylphenol due to chromatographic limitations. The reported result could be 3-Methylphenol, 4-Methylphenol, or a combination of both isomers.

Analysis: USEPA-8270C

Sample/Analyte: 0610523-11 W-17A 4-Methylphenol

April 30, 2007

Beazer East, Inc.
Attn: Ms. Angie Gatchie c/o FTS
200 Third Avenue
Carnegie, PA 15106

Project: Superior GW - WI Cert. #999472650

Dear Ms. Angie Gatchie c/o FTS,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0704333	04/17/2007	2007-Annual New Wells
0704334	04/18/2007	2007-Annual New Wells

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC); any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist

Enclosures(s)

The total number of pages in this report, including this page, is 41.

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-26A**
 Lab Sample ID: **0704333-01**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0704254

Work Order: **0704333**
 Description: 2007-Annual New Wells
 Sampled: 04/16/07 09:50
 Sampled By: Dave Hreha
 Received: 04/17/07 09:00
 Prepared: 04/20/07 By: LEW
 Date Analyzed: 04/20/07 By: LEW
 Analytical Batch: 7042338

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	ND U	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		101	<i>90-113</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-26A	Sampled:	04/16/07 09:50
Lab Sample ID:	0704333-01	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	0.030 J	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047

Continued on next page

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-26A**
 Lab Sample ID: **0704333-01**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0704161

Work Order: **0704333**
 Description: 2007-Annual New Wells
 Sampled: 04/16/07 09:50
 Sampled By: Dave Hreha
 Received: 04/17/07 09:00
 Prepared: 04/20/07 By: RRH
 Date Analyzed: 04/23/07 By: JMK
 Analytical Batch: 7042347

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
58-90-2	2,3,4,6-Tetrachlorophenol	NDU	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	1.5	0.44
88-06-2	2,4,6-Trichlorophenol	NDU	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	NDU	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	45	<i>16-69</i>	
	<i>Phenol-d6</i>	28	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	72	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	59	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	71	<i>32-127</i>	
	<i>o-Terphenyl</i>	79	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-39A	Sampled:	04/16/07 13:05
Lab Sample ID:	0704333-02	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	0.019 J	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	0.019 J	0.052	0.016
86-73-7	Fluorene	0.019 J	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	0.029 J	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	0.029 J	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

Continued on next page

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-39A**
 Lab Sample ID: **0704333-02**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0704161

Work Order: **0704333**
 Description: 2007-Annual New Wells
 Sampled: 04/16/07 13:05
 Sampled By: Dave Hreha
 Received: 04/17/07 09:00
 Prepared: 04/20/07 By: RRH
 Date Analyzed: 04/23/07 By: JMK
 Analytical Batch: 7042347

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	NDU	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	NDU	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	47	<i>16-69</i>	
	<i>Phenol-d6</i>	27	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	71	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	58	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	71	<i>32-127</i>	
	<i>o-Terphenyl</i>	77	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-14A	Sampled:	04/16/07 14:25
Lab Sample ID:	0704333-03	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	0.019 J	0.042	0.013
208-96-8	Acenaphthylene	0.029 J	0.040	0.012
120-12-7	Anthracene	0.39	0.045	0.014
56-55-3	Benzo(a)anthracene	0.049 J	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	0.039 J	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	0.19	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	0.11	0.052	0.016
86-73-7	Fluorene	0.019 J	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	0.029 J	0.046	0.014
91-57-6	2-Methylnaphthalene	0.019 J	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	1.9	0.30	0.091
85-01-8	Phenanthrene	0.019 J	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	0.17	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	0.56	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	0.82 J	1.5	0.44

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-14A	Sampled:	04/16/07 14:25
Lab Sample ID:	0704333-03	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	45	<i>16-69</i>	
	<i>Phenol-d6</i>	28	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	67	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	53	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	71	<i>32-127</i>	
	<i>o-Terphenyl</i>	68	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-38A	Sampled:	04/16/07 15:45
Lab Sample ID:	0704333-04	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	0.019 J	0.040	0.012
120-12-7	Anthracene	0.097	0.045	0.014
56-55-3	Benzo(a)anthracene	0.14	0.12	0.037
50-32-8	Benzo(a)pyrene	0.17	0.077	0.023
205-99-2	Benzo(b)fluoranthene	0.51	0.13	0.040
207-08-9	Benzo(k)fluoranthene	0.17	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	0.16	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	0.12	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	0.039 J	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	0.17	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	0.17	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	0.049 J	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	0.23	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-38A	Sampled:	04/16/07 15:45
Lab Sample ID:	0704333-04	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	NDU	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	NDU	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	37	<i>16-69</i>	
	<i>Phenol-d6</i>	24	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	60	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	51	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	56	<i>32-127</i>	
	<i>o-Terphenyl</i>	57	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	FB001-041607	Sampled:	04/16/07 14:45
Lab Sample ID:	0704333-05	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: LEW
Dilution Factor:	1	Date Analyzed:	04/20/07 By: LEW
QC Batch:	0704254	Analytical Batch:	7042338

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	NDU	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		102	<i>90-113</i>	

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **FB001-041607**
 Lab Sample ID: **0704333-05**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0704161

Work Order: **0704333**
 Description: 2007-Annual New Wells
 Sampled: 04/16/07 14:45
 Sampled By: Dave Hreha
 Received: 04/17/07 09:00
 Prepared: 04/20/07 By: RRH
 Date Analyzed: 04/23/07 By: JMK
 Analytical Batch: 7042347

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	FB001-041607	Sampled:	04/16/07 14:45
Lab Sample ID:	0704333-05	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: RRH
Dilution Factor:	1	Date Analyzed:	04/23/07 By: JMK
QC Batch:	0704161	Analytical Batch:	7042347

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	45	<i>16-69</i>	
	<i>Phenol-d6</i>	27	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	73	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	56	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	68	<i>32-127</i>	
	<i>o-Terphenyl</i>	74	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704333
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	Trip Blank TM1383	Sampled:	04/16/07 00:00
Lab Sample ID:	0704333-06	Sampled By:	
Matrix:	Water	Received:	04/17/07 09:00
Unit:	ug/L	Prepared:	04/20/07 By: LEW
Dilution Factor:	1	Date Analyzed:	04/20/07 By: LEW
QC Batch:	0704254	Analytical Batch:	7042338

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	NDU	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		102	<i>90-113</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-36A	Sampled:	04/17/07 09:55
Lab Sample ID:	0704334-01	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	10	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042557

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	1.5	0.42	0.13
208-96-8	Acenaphthylene	NDU	0.40	0.12
120-12-7	Anthracene	0.20 J	0.45	0.14
56-55-3	Benzo(a)anthracene	NDU	1.2	0.37
50-32-8	Benzo(a)pyrene	NDU	0.77	0.23
205-99-2	Benzo(b)fluoranthene	NDU	1.3	0.40
207-08-9	Benzo(k)fluoranthene	NDU	1.2	0.36
191-24-2	Benzo(g,h,i)perylene	NDU	0.72	0.22
59-50-7	4-Chloro-3-methylphenol	NDU	0.71	0.21
95-57-8	2-Chlorophenol	NDU	0.53	0.16
218-01-9	Chrysene	NDU	0.67	0.20
53-70-3	Dibenz(a,h)anthracene	NDU	0.86	0.26
120-83-2	2,4-Dichlorophenol	NDU	0.50	0.15
105-67-9	2,4-Dimethylphenol	NDU	11	3.3
534-52-1	4,6-Dinitro-2-methylphenol	NDU	4.1	1.2
51-28-5	2,4-Dinitrophenol	NDU	48	15
206-44-0	Fluoranthene	0.20 J	0.52	0.16
86-73-7	Fluorene	NDU	0.35	0.11
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.46	0.14
91-57-6	2-Methylnaphthalene	NDU	0.50	0.15
95-48-7	2-Methylphenol	NDU	4.8	1.4
106-44-5	4-Methylphenol	NDU	5.2	1.6
91-20-3	Naphthalene	NDU	0.75	0.23
100-02-7	4-Nitrophenol	NDU	42	13
88-75-5	2-Nitrophenol	NDU	0.87	0.26
87-86-5	Pentachlorophenol	190	3.0	0.91
85-01-8	Phenanthrene	NDU	0.50	0.15
108-95-2	Phenol	NDU	0.91	0.28
129-00-0	Pyrene	NDU	1.6	0.47
58-90-2	2,3,4,6-Tetrachlorophenol	22	5.4	1.6
935-95-5	2,3,5,6-Tetrachlorophenol	4.7 J	15	4.4

Continued on next page

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-36A**
 Lab Sample ID: **0704334-01**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 10
 QC Batch: 0704263

Work Order: **0704334**
 Description: 2007-Annual New Wells
 Sampled: 04/17/07 09:55
 Sampled By: Dave Hreha
 Received: 04/18/07 08:55
 Prepared: 04/24/07 By: ASC
 Date Analyzed: 04/24/07 By: JMK
 Analytical Batch: 7042557

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	1.1	0.88	0.27
95-95-4	2,4,5-Trichlorophenol	ND U	3.6	1.1
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	27	<i>16-69</i>	
	<i>Phenol-d6</i>	22	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	44	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	41	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	37	<i>32-127</i>	
	<i>o-Terphenyl</i>	52	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-37A	Sampled:	04/17/07 11:00
Lab Sample ID:	0704334-02	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042540

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	0.020 J	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	0.93	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

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ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **W-37A**
 Lab Sample ID: **0704334-02**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0704263

Work Order: **0704334**
 Description: 2007-Annual New Wells
 Sampled: 04/17/07 11:00
 Sampled By: Dave Hreha
 Received: 04/18/07 08:55
 Prepared: 04/24/07 By: ASC
 Date Analyzed: 04/24/07 By: JMK
 Analytical Batch: 7042540

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	43	<i>16-69</i>	
	<i>Phenol-d6</i>	27	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	69	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	58	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	69	<i>32-127</i>	
	<i>o-Terphenyl</i>	76	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-16A	Sampled:	04/17/07 11:25
Lab Sample ID:	0704334-03	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/25/07 By: LEW
Dilution Factor:	2	Date Analyzed:	04/26/07 By: LEW
QC Batch:	0704255	Analytical Batch:	7042640

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	82	1.5	0.44
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		103	<i>90-113</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-40A	Sampled:	04/17/07 12:10
Lab Sample ID:	0704334-04	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042540

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-40A	Sampled:	04/17/07 12:10
Lab Sample ID:	0704334-04	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042540

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery		Control Limits
<i>2-Fluorophenol</i>		43		<i>16-69</i>
<i>Phenol-d6</i>		25		<i>11-49</i>
<i>Nitrobenzene-d5</i>		67		<i>26-116</i>
<i>2-Fluorobiphenyl</i>		55		<i>37-123</i>
<i>2,4,6-Tribromophenol</i>		66		<i>32-127</i>
<i>o-Terphenyl</i>		74		<i>30-119</i>

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-35A	Sampled:	04/17/07 12:35
Lab Sample ID:	0704334-05	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/25/07 By: LEW
Dilution Factor:	1	Date Analyzed:	04/26/07 By: LEW
QC Batch:	0704255	Analytical Batch:	7042640

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	ND U	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		109	<i>90-113</i>	

ANALYTICAL REPORT

Client: Beazer East, Inc.	Work Order: 0704334
Project: Superior GW - WI Cert. #999472650	Description: 2007-Annual New Wells
Client Sample ID: W-35A	Sampled: 04/17/07 12:35
Lab Sample ID: 0704334-05	Sampled By: Dave Hreha
Matrix: Water	Received: 04/18/07 08:55
Unit: ug/L	Prepared: 04/24/07 By: ASC
Dilution Factor: 1	Date Analyzed: 04/24/07 By: JMK
QC Batch: 0704263	Analytical Batch: 7042540

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	NDU	0.042	0.013
208-96-8	Acenaphthylene	NDU	0.040	0.012
120-12-7	Anthracene	0.019 J	0.045	0.014
56-55-3	Benzo(a)anthracene	NDU	0.12	0.037
50-32-8	Benzo(a)pyrene	NDU	0.077	0.023
205-99-2	Benzo(b)fluoranthene	NDU	0.13	0.040
207-08-9	Benzo(k)fluoranthene	NDU	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	NDU	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	NDU	0.071	0.021
95-57-8	2-Chlorophenol	NDU	0.053	0.016
218-01-9	Chrysene	NDU	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	NDU	0.086	0.026
120-83-2	2,4-Dichlorophenol	NDU	0.050	0.015
105-67-9	2,4-Dimethylphenol	NDU	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	NDU	0.41	0.12
51-28-5	2,4-Dinitrophenol	NDU	4.8	1.5
206-44-0	Fluoranthene	0.039 J	0.052	0.016
86-73-7	Fluorene	NDU	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.046	0.014
91-57-6	2-Methylnaphthalene	NDU	0.050	0.015
95-48-7	2-Methylphenol	NDU	0.48	0.14
106-44-5	4-Methylphenol	NDU	0.52	0.16
91-20-3	Naphthalene	NDU	0.075	0.023
100-02-7	4-Nitrophenol	NDU	4.2	1.3
88-75-5	2-Nitrophenol	NDU	0.087	0.026
87-86-5	Pentachlorophenol	NDU	0.30	0.091
85-01-8	Phenanthrene	0.019 J	0.050	0.015
108-95-2	Phenol	NDU	0.091	0.028
129-00-0	Pyrene	NDU	0.16	0.047

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-35A	Sampled:	04/17/07 12:35
Lab Sample ID:	0704334-05	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042540

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	42	<i>16-69</i>	
	<i>Phenol-d6</i>	25	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	68	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	54	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	68	<i>32-127</i>	
	<i>o-Terphenyl</i>	74	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-17A	Sampled:	04/17/07 14:00
Lab Sample ID:	0704334-06	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	5	Date Analyzed:	04/25/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042645

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	130	0.21	0.064
208-96-8	Acenaphthylene	2.3	0.20	0.060
120-12-7	Anthracene	7.2	0.22	0.068
56-55-3	Benzo(a)anthracene	2.0	0.62	0.19
50-32-8	Benzo(a)pyrene	0.72	0.39	0.12
205-99-2	Benzo(b)fluoranthene	0.98	0.65	0.20
207-08-9	Benzo(k)fluoranthene	0.52 J	0.60	0.18
191-24-2	Benzo(g,h,i)perylene	0.15 J	0.36	0.11
59-50-7	4-Chloro-3-methylphenol	ND U	0.35	0.11
95-57-8	2-Chlorophenol	ND U	0.27	0.080
218-01-9	Chrysene	2.0	0.34	0.10
53-70-3	Dibenz(a,h)anthracene	ND U	0.43	0.13
120-83-2	2,4-Dichlorophenol	ND U	0.25	0.075
105-67-9	2,4-Dimethylphenol	8.9	5.4	1.6
534-52-1	4,6-Dinitro-2-methylphenol	ND U	2.0	0.62
51-28-5	2,4-Dinitrophenol	ND U	24	7.3
206-44-0	Fluoranthene	21	0.26	0.080
86-73-7	Fluorene	40	0.18	0.054
193-39-5	Indeno(1,2,3-cd)pyrene	0.15 J	0.23	0.069
91-57-6	2-Methylnaphthalene	0.88	0.25	0.076
95-48-7	2-Methylphenol	14	2.4	0.72
106-44-5	4-Methylphenol	5.7	2.6	0.78
91-20-3	Naphthalene	7.3	0.37	0.11
100-02-7	4-Nitrophenol	ND U	21	6.4
88-75-5	2-Nitrophenol	ND U	0.43	0.13
87-86-5	Pentachlorophenol	ND U	1.5	0.46
85-01-8	Phenanthrene	15	0.25	0.076
108-95-2	Phenol	2.0	0.46	0.14
129-00-0	Pyrene	15	0.78	0.24
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	2.7	0.82
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	7.3	2.2

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	W-17A	Sampled:	04/17/07 14:00
Lab Sample ID:	0704334-06	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	5	Date Analyzed:	04/25/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042645

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	NDU	0.44	0.13
95-95-4	2,4,5-Trichlorophenol	NDU	1.8	0.54
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	42	<i>16-69</i>	
	<i>Phenol-d6</i>	25	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	54	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	51	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	69	<i>32-127</i>	
	<i>o-Terphenyl</i>	65	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	Duplicate 002	Sampled:	04/17/07 00:00
Lab Sample ID:	0704334-07	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	10	Date Analyzed:	04/25/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042645

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	1.2	0.42	0.13
208-96-8	Acenaphthylene	NDU	0.40	0.12
120-12-7	Anthracene	0.29 J	0.45	0.14
56-55-3	Benzo(a)anthracene	NDU	1.2	0.37
50-32-8	Benzo(a)pyrene	NDU	0.77	0.23
205-99-2	Benzo(b)fluoranthene	NDU	1.3	0.40
207-08-9	Benzo(k)fluoranthene	NDU	1.2	0.36
191-24-2	Benzo(g,h,i)perylene	NDU	0.72	0.22
59-50-7	4-Chloro-3-methylphenol	NDU	0.71	0.21
95-57-8	2-Chlorophenol	NDU	0.53	0.16
218-01-9	Chrysene	NDU	0.67	0.20
53-70-3	Dibenz(a,h)anthracene	NDU	0.86	0.26
120-83-2	2,4-Dichlorophenol	NDU	0.50	0.15
105-67-9	2,4-Dimethylphenol	NDU	11	3.3
534-52-1	4,6-Dinitro-2-methylphenol	NDU	4.1	1.2
51-28-5	2,4-Dinitrophenol	NDU	48	15
206-44-0	Fluoranthene	0.29 J	0.52	0.16
86-73-7	Fluorene	NDU	0.35	0.11
193-39-5	Indeno(1,2,3-cd)pyrene	NDU	0.46	0.14
91-57-6	2-Methylnaphthalene	NDU	0.50	0.15
95-48-7	2-Methylphenol	NDU	4.8	1.4
106-44-5	4-Methylphenol	NDU	5.2	1.6
91-20-3	Naphthalene	NDU	0.75	0.23
100-02-7	4-Nitrophenol	NDU	42	13
88-75-5	2-Nitrophenol	NDU	0.87	0.26
87-86-5	Pentachlorophenol	240	3.0	0.91
85-01-8	Phenanthrene	NDU	0.50	0.15
108-95-2	Phenol	NDU	0.91	0.28
129-00-0	Pyrene	NDU	1.6	0.47
58-90-2	2,3,4,6-Tetrachlorophenol	34	5.4	1.6
935-95-5	2,3,5,6-Tetrachlorophenol	5.1 J	15	4.4

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	Duplicate 002	Sampled:	04/17/07 00:00
Lab Sample ID:	0704334-07	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	10	Date Analyzed:	04/25/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042645

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	1.5	0.88	0.27
95-95-4	2,4,5-Trichlorophenol	2.2J	3.6	1.1
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	40	<i>16-69</i>	
	<i>Phenol-d6</i>	20	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	65	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	55	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	60	<i>32-127</i>	
	<i>o-Terphenyl</i>	66	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	FB002-041707	Sampled:	04/17/07 14:30
Lab Sample ID:	0704334-08	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/25/07 By: LEW
Dilution Factor:	1	Date Analyzed:	04/25/07 By: LEW
QC Batch:	0704255	Analytical Batch:	7042640

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	NDU	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		104	<i>90-113</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	FB002-041707	Sampled:	04/17/07 14:30
Lab Sample ID:	0704334-08	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042557

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	FB002-041707	Sampled:	04/17/07 14:30
Lab Sample ID:	0704334-08	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/24/07 By: ASC
Dilution Factor:	1	Date Analyzed:	04/24/07 By: JMK
QC Batch:	0704263	Analytical Batch:	7042557

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
58-90-2	2,3,4,6-Tetrachlorophenol	NDU	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	1.5	0.44
88-06-2	2,4,6-Trichlorophenol	NDU	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	NDU	0.36	0.11
Surrogates		% Recovery		Control Limits
<i>2-Fluorophenol</i>		43		<i>16-69</i>
<i>Phenol-d6</i>		29		<i>11-49</i>
<i>Nitrobenzene-d5</i>		73		<i>26-116</i>
<i>2-Fluorobiphenyl</i>		58		<i>37-123</i>
<i>2,4,6-Tribromophenol</i>		65		<i>32-127</i>
<i>o-Terphenyl</i>		75		<i>30-119</i>

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0704334
Project:	Superior GW - WI Cert. #999472650	Description:	2007-Annual New Wells
Client Sample ID:	Trip Blank 002	Sampled:	04/17/07 08:00
Lab Sample ID:	0704334-09	Sampled By:	Dave Hreha
Matrix:	Water	Received:	04/18/07 08:55
Unit:	ug/L	Prepared:	04/25/07 By: LEW
Dilution Factor:	1	Date Analyzed:	04/26/07 By: LEW
QC Batch:	0704255	Analytical Batch:	7042640

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	ND U	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		106	<i>90-113</i>	

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

June 25, 2007

Beazer East, Inc.
Attn: Ms. Angie Gatchie c/o FTS
200 Third Avenue
Carnegie, PA 15106

Project: Superior GW - WI Cert. #999472650

Dear Ms. Angie Gatchie c/o FTS,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0706301	06/14/2007	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC); any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist

Enclosures(s)

The total number of pages in this report, including this page, is 24.

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975 -4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-37A	Sampled:	06/13/07 08:30
Lab Sample ID:	0706301-01	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/22/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062253

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	NDU	0.042	0.013
208-96-8	Acenaphthylene	NDU	0.040	0.012
120-12-7	Anthracene	0.019J	0.045	0.014
56-55-3	Benzo(a)anthracene	NDU	0.12	0.037
50-32-8	Benzo(a)pyrene	NDU	0.077	0.023
205-99-2	Benzo(b)fluoranthene	NDU	0.13	0.040
207-08-9	Benzo(k)fluoranthene	NDU	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	NDU	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	NDU	0.071	0.021
95-57-8	2-Chlorophenol	NDU	0.053	0.016
218-01-9	Chrysene	NDU	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	NDU	0.086	0.026
120-83-2	2,4-Dichlorophenol	NDU	0.050	0.015
105-67-9	2,4-Dimethylphenol	NDU	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	NDU	0.41	0.12
51-28-5	2,4-Dinitrophenol	NDU	4.8	1.5
206-44-0	Fluoranthene	0.019J	0.052	0.016
86-73-7	Fluorene	NDU	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	0.019J	0.046	0.014
91-57-6	2-Methylnaphthalene	NDU	0.050	0.015
95-48-7	2-Methylphenol	NDU	0.48	0.14
106-44-5	4-Methylphenol	NDU	0.52	0.16
91-20-3	Naphthalene	NDU	0.075	0.023
100-02-7	4-Nitrophenol	NDU	4.2	1.3
88-75-5	2-Nitrophenol	NDU	0.087	0.026
87-86-5	Pentachlorophenol	NDU	0.30	0.091
85-01-8	Phenanthrene	0.019J	0.050	0.015
108-95-2	Phenol	NDU	0.091	0.028
129-00-0	Pyrene	NDU	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	NDU	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	NDU	1.5	0.44

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-37A	Sampled:	06/13/07 08:30
Lab Sample ID:	0706301-01	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/22/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062253

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	45	<i>16-69</i>	
	<i>Phenol-d6</i>	31	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	84	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	79	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	80	<i>32-127</i>	
	<i>o-Terphenyl</i>	89	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-35A	Sampled:	06/13/07 09:40
Lab Sample ID:	0706301-02	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/19/07 By: LEW
Dilution Factor:	1	Date Analyzed:	06/20/07 By: LEW
QC Batch:	0706835	Analytical Batch:	7062159

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	ND U	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		108	90-113	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-35A	Sampled:	06/13/07 09:40
Lab Sample ID:	0706301-02	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/22/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062253

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.045	0.014
208-96-8	Acenaphthylene	ND U	0.043	0.013
120-12-7	Anthracene	ND U	0.048	0.015
56-55-3	Benzo(a)anthracene	ND U	0.13	0.040
50-32-8	Benzo(a)pyrene	ND U	0.083	0.025
205-99-2	Benzo(b)fluoranthene	ND U	0.14	0.043
207-08-9	Benzo(k)fluoranthene	ND U	0.13	0.039
191-24-2	Benzo(g,h,i)perylene	ND U	0.078	0.024
59-50-7	4-Chloro-3-methylphenol	ND U	0.076	0.023
95-57-8	2-Chlorophenol	ND U	0.057	0.017
218-01-9	Chrysene	ND U	0.072	0.022
53-70-3	Dibenz(a,h)anthracene	ND U	0.093	0.028
120-83-2	2,4-Dichlorophenol	ND U	0.053	0.016
105-67-9	2,4-Dimethylphenol	ND U	1.2	0.35
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.44	0.13
51-28-5	2,4-Dinitrophenol	ND U	5.2	1.6
206-44-0	Fluoranthene	0.022 J	0.056	0.017
86-73-7	Fluorene	ND U	0.038	0.012
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.049	0.015
91-57-6	2-Methylnaphthalene	ND U	0.054	0.016
95-48-7	2-Methylphenol	ND U	0.51	0.15
106-44-5	4-Methylphenol	ND U	0.56	0.17
91-20-3	Naphthalene	ND U	0.081	0.024
100-02-7	4-Nitrophenol	ND U	4.5	1.4
88-75-5	2-Nitrophenol	ND U	0.093	0.028
87-86-5	Pentachlorophenol	ND U	0.32	0.098
85-01-8	Phenanthrene	ND U	0.054	0.016
108-95-2	Phenol	ND U	0.098	0.030
129-00-0	Pyrene	ND U	0.17	0.051

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-35A	Sampled:	06/13/07 09:40
Lab Sample ID:	0706301-02	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/22/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062253

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.58	0.18
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.6	0.48
88-06-2	2,4,6-Trichlorophenol	ND U	0.095	0.029
95-95-4	2,4,5-Trichlorophenol	ND U	0.39	0.12
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	47	<i>16-69</i>	
	<i>Phenol-d6</i>	33	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	84	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	78	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	82	<i>32-127</i>	
	<i>o-Terphenyl</i>	89	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-40A	Sampled:	06/13/07 11:05
Lab Sample ID:	0706301-03	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/21/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062248

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	0.042 J	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	0.021 J	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	0.031 J	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	0.031 J	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	0.44	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	W-40A	Sampled:	06/13/07 11:05
Lab Sample ID:	0706301-03	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/21/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062248

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery	Control Limits	
	<i>2-Fluorophenol</i>	44	<i>16-69</i>	
	<i>Phenol-d6</i>	31	<i>11-49</i>	
	<i>Nitrobenzene-d5</i>	84	<i>26-116</i>	
	<i>2-Fluorobiphenyl</i>	71	<i>37-123</i>	
	<i>2,4,6-Tribromophenol</i>	76	<i>32-127</i>	
	<i>o-Terphenyl</i>	84	<i>30-119</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	DUP01	Sampled:	06/13/07 00:00
Lab Sample ID:	0706301-04	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/19/07 By: LEW
Dilution Factor:	1	Date Analyzed:	06/20/07 By: LEW
QC Batch:	0706835	Analytical Batch:	7062159

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	NDU	0.73	0.22
Surrogates		% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>		107	<i>90-113</i>	

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	DUP01	Sampled:	06/13/07 00:00
Lab Sample ID:	0706301-04	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/21/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062248

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthene	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	0.021 J	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047

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ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	Field Blank	Sampled:	06/13/07 14:00
Lab Sample ID:	0706301-06	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/21/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062248

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	LOQ	LOD
83-32-9	Acenaphthenc	ND U	0.042	0.013
208-96-8	Acenaphthylene	ND U	0.040	0.012
120-12-7	Anthracene	ND U	0.045	0.014
56-55-3	Benzo(a)anthracene	ND U	0.12	0.037
50-32-8	Benzo(a)pyrene	ND U	0.077	0.023
205-99-2	Benzo(b)fluoranthene	ND U	0.13	0.040
207-08-9	Benzo(k)fluoranthene	ND U	0.12	0.036
191-24-2	Benzo(g,h,i)perylene	ND U	0.072	0.022
59-50-7	4-Chloro-3-methylphenol	ND U	0.071	0.021
95-57-8	2-Chlorophenol	ND U	0.053	0.016
218-01-9	Chrysene	ND U	0.067	0.020
53-70-3	Dibenz(a,h)anthracene	ND U	0.086	0.026
120-83-2	2,4-Dichlorophenol	ND U	0.050	0.015
105-67-9	2,4-Dimethylphenol	ND U	1.1	0.33
534-52-1	4,6-Dinitro-2-methylphenol	ND U	0.41	0.12
51-28-5	2,4-Dinitrophenol	ND U	4.8	1.5
206-44-0	Fluoranthene	ND U	0.052	0.016
86-73-7	Fluorene	ND U	0.035	0.011
193-39-5	Indeno(1,2,3-cd)pyrene	ND U	0.046	0.014
91-57-6	2-Methylnaphthalene	ND U	0.050	0.015
95-48-7	2-Methylphenol	ND U	0.48	0.14
106-44-5	4-Methylphenol	ND U	0.52	0.16
91-20-3	Naphthalene	ND U	0.075	0.023
100-02-7	4-Nitrophenol	ND U	4.2	1.3
88-75-5	2-Nitrophenol	ND U	0.087	0.026
87-86-5	Pentachlorophenol	ND U	0.30	0.091
85-01-8	Phenanthrene	ND U	0.050	0.015
108-95-2	Phenol	ND U	0.091	0.028
129-00-0	Pyrene	ND U	0.16	0.047
58-90-2	2,3,4,6-Tetrachlorophenol	ND U	0.54	0.16
935-95-5	2,3,5,6-Tetrachlorophenol	ND U	1.5	0.44

Continued on next page

ANALYTICAL REPORT

Client:	Beazer East, Inc.	Work Order:	0706301
Project:	Superior GW - WI Cert. #999472650	Description:	Laboratory Services
Client Sample ID:	Field Blank	Sampled:	06/13/07 14:00
Lab Sample ID:	0706301-06	Sampled By:	David Griffin
Matrix:	Water	Received:	06/14/07 09:15
Unit:	ug/L	Prepared:	06/18/07 By: BJH
Dilution Factor:	1	Date Analyzed:	06/21/07 By: JMK
QC Batch:	0706667	Analytical Batch:	7062248

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	LOQ	LOD
88-06-2	2,4,6-Trichlorophenol	ND U	0.088	0.027
95-95-4	2,4,5-Trichlorophenol	ND U	0.36	0.11
Surrogates		% Recovery		Control Limits
<i>2-Fluorophenol</i>		52		<i>16-69</i>
<i>Phenol-d6</i>		36		<i>11-49</i>
<i>Nitrobenzene-d5</i>		86		<i>26-116</i>
<i>2-Fluorobiphenyl</i>		82		<i>37-123</i>
<i>2,4,6-Tribromophenol</i>		87		<i>32-127</i>
<i>o-Terphenyl</i>		93		<i>30-119</i>

ANALYTICAL REPORT

Client: **Beazer East, Inc.**
 Project: Superior GW - WI Cert. #999472650
 Client Sample ID: **Trip Blank TM1704**
 Lab Sample ID: **0706301-07**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 0706835

Work Order: **0706301**
 Description: Laboratory Services
 Sampled: 06/13/07 00:00
 Sampled By:
 Received: 06/14/07 09:15
 Prepared: 06/19/07 By: LEW
 Date Analyzed: 06/20/07 By: LEW
 Analytical Batch: 7062159

Halogenated and Aromatic Volatiles by EPA Method 8021B

CAS Number	Analyte	Analytical Result	LOQ	LOD
71-43-2	Benzene	NDU	0.73	0.22
Surrogates		% Recovery	Control Limits	
	<i>aaa-Trifluorotoluene</i>	107	<i>90-113</i>	

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

Field & Technical Services, LLC

Client Sample ID: W-26A

Trace Level Organic Compounds

Lot-Sample #...: G6J250266-004 Work Order #...: JG74G1AA Matrix.....: WATER
 Date Sampled...: 10/24/06 Date Received...: 10/25/06
 Prep Date.....: 11/09/06 Analysis Date...: 11/12/06
 Prep Batch #...: 6314281
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	2.0	pg/L	SW846 8290
Total TCDD	ND	2.0	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	4.7	pg/L	SW846 8290
Total PeCDD	ND	13	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.8	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	4.8 J,B		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	3.2	pg/L	SW846 8290
Total HxCDD	4.8		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	170 B		pg/L	SW846 8290
Total HpCDD	310		pg/L	SW846 8290
OCDD	2100		pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.7	pg/L	SW846 8290
Total TCDF	ND	1.7	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	2.1	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	2.1	pg/L	SW846 8290
Total PeCDF	ND	3.0	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	4.2	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	2.2	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	2.5	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.8	pg/L	SW846 8290
Total HxCDF	22		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	40 J,B		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	4.3	pg/L	SW846 8290
Total HpCDF	140		pg/L	SW846 8290
OCDF	150 B		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	97	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	88	(40 - 135)
13C-1,2,3,7,8-PeCDF	85	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	93	(40 - 135)

NOTE(S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: DUPLICATE 002

Trace Level Organic Compounds

Lot-Sample #...: G6J250266-005 Work Order #...: JG74J2AA Matrix.....: WATER
 Date Sampled...: 10/24/06 Date Received...: 10/25/06
 Prep Date.....: 11/21/06 Analysis Date...: 11/24/06
 Prep Batch #...: 6326561
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.3	pg/L	SW846 8290
Total TCDD	ND	3.3	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	17	pg/L	SW846 8290
Total PeCDD	ND	17	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	55		pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	550		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	160		pg/L	SW846 8290
Total HxCDD	1300		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	10000		pg/L	SW846 8290
Total HpCDD	15000		pg/L	SW846 8290
OCDD	64000 E		pg/L	SW846 8290
2,3,7,8-TCDF	ND CON	5.5	pg/L	SW846 8290
Total TCDF	19		pg/L	SW846 8290
1,2,3,7,8-PeCDF	63		pg/L	SW846 8290
2,3,4,7,8-PeCDF	39 J		pg/L	SW846 8290
Total PeCDF	350		pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	310		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	160		pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	100		pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	36 J		pg/L	SW846 8290
Total HxCDF	5300		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	3800		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	520		pg/L	SW846 8290
Total HpCDF	15000		pg/L	SW846 8290
OCDF	6900		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	87	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	76	(40 - 135)
13C-OCDD	86	(40 - 135)
13C-2,3,7,8-TCDF	90	(40 - 135)
13C-1,2,3,7,8-PeCDF	90	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	71	(40 - 135)

NOTE(S) :

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

J Estimated result. Result is less than the reporting limit.

Field & Technical Services, LLC

Client Sample ID: W-36A

Trace Level Organic Compounds

Lot-Sample #...: G6J250266-006 Work Order #...: JG74K1AA Matrix.....: WATER
 Date Sampled...: 10/24/06 Date Received...: 10/25/06
 Prep Date.....: 11/09/06 Analysis Date...: 11/12/06
 Prep Batch #...: 6314281
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.6	pg/L	SW846 8290
Total TCDD	ND	1.6	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	3.5	pg/L	SW846 8290
Total PeCDD	ND	9.8	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.6	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	27 J,B		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	7.1 J		pg/L	SW846 8290
Total HxCDD	95		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	860 B		pg/L	SW846 8290
Total HpCDD	1600		pg/L	SW846 8290
OCDD	8800		pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.5	pg/L	SW846 8290
Total TCDF	ND	1.5	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	2.1	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	2.1	pg/L	SW846 8290
Total PeCDF	ND	2.9	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	3.8	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	2.3	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	2.5	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.8	pg/L	SW846 8290
Total HxCDF	81		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	130 B		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	7.8	pg/L	SW846 8290
Total HpCDF	700		pg/L	SW846 8290
OCDF	860 B		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(40 - 135)
13C-1,2,3,7,8-PeCDD	91	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	102	(40 - 135)
13C-OCDD	100	(40 - 135)
13C-2,3,7,8-TCDF	91	(40 - 135)
13C-1,2,3,7,8-PeCDF	87	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	90	(40 - 135)

NOTE (S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: FB102406

Trace Level Organic Compounds

Lot-Sample #...: G6J250266-007 Work Order #...: JG75L1AA Matrix.....: WATER
 Date Sampled...: 10/24/06 Date Received...: 10/25/06
 Prep Date.....: 11/09/06 Analysis Date...: 11/12/06
 Prep Batch #...: 6314281
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.6	pg/L	SW846 8290
Total TCDD	ND	1.6	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	3.5	pg/L	SW846 8290
Total PeCDD	ND	6.3	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.3	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.2	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.2	pg/L	SW846 8290
Total HxCDD	ND	2.3	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	3.3	pg/L	SW846 8290
Total HpCDD	ND	3.3	pg/L	SW846 8290
OCDD	22 J		pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.2	pg/L	SW846 8290
Total TCDF	ND	1.2	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	1.9	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.9	pg/L	SW846 8290
Total PeCDF	ND	2.6	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.8	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	1.7	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.9	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.1	pg/L	SW846 8290
Total HxCDF	ND	2.1	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	2.2	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	1.8 J		pg/L	SW846 8290
Total HpCDF	1.8		pg/L	SW846 8290
OCDF	ND	3.6	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	86	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	96	(40 - 135)
13C-OCDD	89	(40 - 135)
13C-2,3,7,8-TCDF	88	(40 - 135)
13C-1,2,3,7,8-PeCDF	82	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	89	(40 - 135)

NOTE(S):

J Estimated result. Result is less than the reporting limit.



STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600
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November 28, 2006

STL SACRAMENTO PROJECT NUMBER: G6J260255
PO/CONTRACT: 00556-6101

Angie Gatchie
Field & Technical Services, LL
200 Third Avenue
Carnegie, PA 15106

Dear Ms. Gatchie,

This report contains the analytical results for the sample received under chain of custody by STL Sacramento on October 26, 2006. This sample is associated with your Beazer - Superior GW Sampling project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

A handwritten signature in black ink, appearing to read "K Dahl".

Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6J260255

WATER, 8290, Dioxins/Furans

Per Wisconsin requirements, samples and quality control samples have been written up to levels that fall below the lower calibration limits. The method blank contains many positive results that fall below the lower calibration limit. Any results for these analytes in the associated samples have been flagged with 'B' qualifiers. No corrective action was performed since the levels in the method blank were below the lower calibration limit.

The laboratory control sample showed a high recovery for 1,2,3,6,7,8-HxCDD. Since the associated sample results were 'ND' for this analyte, no corrective action was performed.

There were no other anomalies associated with this project.

Sample Summary

G6J260255

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JHCDC	1	W-39A	10/25/2006 10:00 AM	10/26/2006 09:10 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Field & Technical Services, LLC

Client Sample ID: W-39A

Trace Level Organic Compounds

Lot-Sample #...: G6J260255-001 Work Order #...: JHCDC1AA' Matrix.....: WATER
 Date Sampled...: 10/25/06 Date Received...: 10/26/06
 Prep Date.....: 11/09/06 Analysis Date...: 11/12/06
 Prep Batch #...: 6314281
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.6	pg/L	SW846 8290
Total TCDD	ND	1.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	3.7	pg/L	SW846 8290
Total PeCDD	ND	12	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.8	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.7	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.6	pg/L	SW846 8290
Total HxCDD	ND	2.8	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	20 J,B		pg/L	SW846 8290
Total HpCDD	44		pg/L	SW846 8290
OCDD	210		pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.6	pg/L	SW846 8290
Total TCDF	ND	1.6	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	2.1	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	2.0	pg/L	SW846 8290
Total PeCDF	ND	3.8	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.9	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	1.8	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	2.0	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.2	pg/L	SW846 8290
Total HxCDF	ND	2.2	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	5.6	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.9	pg/L	SW846 8290
Total HpCDF	12		pg/L	SW846 8290
OCDF	19 J,B		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	90	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	99	(40 - 135)
13C-OCDD	88	(40 - 135)
13C-2,3,7,8-TCDF	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	86	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)

NOTE(S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600
Fax: 916 372 1059
www.stl-inc.com

May 3, 2007

STL SACRAMENTO PROJECT NUMBER: G7D190255

PO/CONTRACT: pending

Angie Gatchie
Field & Technical Services, LL
200 Third Avenue
Carnegie, PA 15106

Dear Ms. Gatchie,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on April 18th & 19th, 2007. These samples are associated with your Beazer - Superior Supplemental project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,



Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G7D190255

General Comments

The samples were received at 1 degrees C.

WATER, 8290, Dioxins/Furans

Sample(s): 1, 2, 3, 3MS, 3MSD, 4, 5, 6, Method Blank, Laboratory Control Sample

The ending continuing calibration verification showed a high %D for OCDF (-21%). An average relative response factor (calculated from beginning and ending standards) was used to quantitate any positive results for this analyte in the associated samples.

Sample(s): 1

The 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, & 2,3,7,8-TCDF results for this sample have been flagged with 'JA' qualifiers since their ion ratios did not meet acceptance criteria. These results have been reported as 'estimated maximum possible concentrations' since their quantitation was based on theoretical ion ratios.

Sample(s): 3

The 1,2,3,4,7,8-HxCDD result for this sample has been flagged with a 'JA' qualifier since its ion ratio did not meet acceptance criteria. This result has been reported as an 'estimated maximum possible concentration' since its quantitation was based on a theoretical ion ratio.

Sample(s): 5

The OCDF result for this sample has been flagged with a 'JA' qualifier since its ion ratio did not meet acceptance criteria. This result has been reported as an 'estimated maximum possible concentration' since its quantitation was based on a theoretical ion ratio.

Sample(s): 1, 2, 3, 4, 5, 6

The matrix spikes, which were performed on sample 3, showed several recoveries outside control limits due to possible matrix interferences. Since the laboratory control sample showed acceptable recoveries, no corrective action was performed.

There were no other anomalies associated with this project.

Sample Summary

G7D190255

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JT8XR	1	W-25A	4/17/2007 08:50 AM	4/18/2007 09:20 AM
JT8XW	2	W-36A	4/17/2007 09:55 AM	4/18/2007 09:20 AM
JT8X0	3	W-16A	4/17/2007 11:25 AM	4/18/2007 09:20 AM
JT8X2	4	W-35A	4/17/2007 12:35 PM	4/19/2007 09:05 AM
JT8X5	5	FB002-041707	4/17/2007 02:30 PM	4/19/2007 09:05 AM
JT8X7	6	DUPLICATE 002	4/17/2007	4/18/2007 09:20 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Field & Technical Services, LLC

Client Sample ID: W-25A

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-001 Work Order #...: JT8XR1AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/18/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	2.7	pg/L	SW846 8290
Total TCDD	ND	2.7	pg/L	SW846 8290
1,2,3,7,8-PeCDD	6.7 J, JA		pg/L	SW846 8290
Total PeCDD	6.7		pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	19 J, JA		pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	220		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	42 J		pg/L	SW846 8290
Total HxCDD	510		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	4100		pg/L	SW846 8290
Total HpCDD	6200		pg/L	SW846 8290
OCDD	25000 B		pg/L	SW846 8290
2,3,7,8-TCDF	3.3 J, JA		pg/L	SW846 8290
Total TCDF	7.6		pg/L	SW846 8290
1,2,3,7,8-PeCDF	25 J		pg/L	SW846 8290
2,3,4,7,8-PeCDF	14 J		pg/L	SW846 8290
Total PeCDF	120		pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	170		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	57		pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	33 J		pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	15 J		pg/L	SW846 8290
Total HxCDF	2000		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	1400		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	180		pg/L	SW846 8290
Total HpCDF	5200		pg/L	SW846 8290
OCDF	3000		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(40 - 135)
13C-1,2,3,7,8-PeCDD	102	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	97	(40 - 135)
13C-OCDD	120	(40 - 135)
13C-2,3,7,8-TCDF	81	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	84	(40 - 135)

NOTE(S) :

- J Estimated result. Result is less than the reporting limit.
- JA The analyte was positively identified, but the quantitation is an estimate.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: W-36A

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-002 Work Order #...: JT8XW1AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/18/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.6	pg/L	SW846 8290
Total TCDD	ND	3.6	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	7.1	pg/L	SW846 8290
Total PeCDD	ND	7.1	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	5.5	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	22 J		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	5.0	pg/L	SW846 8290
Total HxCDD	71		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	760		pg/L	SW846 8290
Total HpCDD	1400		pg/L	SW846 8290
OCDD	8300 B		pg/L	SW846 8290
2,3,7,8-TCDF	ND	2.6	pg/L	SW846 8290
Total TCDF	ND	2.6	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	4.4	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	4.5	pg/L	SW846 8290
Total PeCDF	ND	4.5	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	4.1	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	3.8	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	4.4	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	4.6	pg/L	SW846 8290
Total HxCDF	51		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	110		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	5.7	pg/L	SW846 8290
Total HpCDF	570		pg/L	SW846 8290
OCDF	900		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(40 - 135)
13C-1,2,3,7,8-PeCDD	100	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	96	(40 - 135)
13C-OCDD	115	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
13C-1,2,3,7,8-PeCDF	87	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	94	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	82	(40 - 135)

NOTE (S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: W-16A

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-003 Work Order #...: JT8X01AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/18/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.8	pg/L	SW846 8290
Total TCDD	ND	3.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	6.2	pg/L	SW846 8290
Total PeCDD	ND	12	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	9.1 J, JA		pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	61		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	56		pg/L	SW846 8290
Total HxCDD	780		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	2500		pg/L	SW846 8290
Total HpCDD	8500		pg/L	SW846 8290
OCDD	23000 B		pg/L	SW846 8290
2,3,7,8-TCDF	ND	2.7	pg/L	SW846 8290
Total TCDF	ND	2.7	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	4.4	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	4.5	pg/L	SW846 8290
Total PeCDF	ND	4.5	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	18 J		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	3.6	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	4.1	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	4.3	pg/L	SW846 8290
Total HxCDF	180		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	200		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	22 J		pg/L	SW846 8290
Total HpCDF	870		pg/L	SW846 8290
OCDF	1000		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	(40 - 135)
13C-1,2,3,7,8-PeCDD	114	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	111	(40 - 135)
13C-2,3,7,8-TCDF	84	(40 - 135)
13C-1,2,3,7,8-PeCDF	98	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)

NOTE(S):

- J Estimated result. Result is less than the reporting limit.
- JA The analyte was positively identified, but the quantitation is an estimate.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: W-35A

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-004 Work Order #...: JT8X21AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/19/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION		
		LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	2.8	pg/L	SW846 8290
Total TCDD	ND	2.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	5.7	pg/L	SW846 8290
Total PeCDD	ND	5.7	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	4.2	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	4.0	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	3.8	pg/L	SW846 8290
Total HxCDD	ND	5.5	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	290		pg/L	SW846 8290
Total HpCDD	600		pg/L	SW846 8290
OCDD	3100 B		pg/L	SW846 8290
2,3,7,8-TCDF	ND	2.6	pg/L	SW846 8290
Total TCDF	ND	2.6	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	3.8	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	3.8	pg/L	SW846 8290
Total PeCDF	ND	3.8	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	3.4	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	3.2	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	3.6	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	3.8	pg/L	SW846 8290
Total HxCDF	30		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	61		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	4.4	pg/L	SW846 8290
Total HpCDF	250		pg/L	SW846 8290
OCDF	350		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	
	RECOVERY	LIMITS
13C-2,3,7,8-TCDD	98	(40 - 135)
13C-1,2,3,7,8-PeCDD	108	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	92	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	112	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Field & Technical Services, LLC

Client Sample ID: FB002-041707

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-005 Work Order #...: JT8X51AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/19/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.8	pg/L	SW846 8290
Total TCDD	ND	3.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	7.9	pg/L	SW846 8290
Total PeCDD	ND	7.9	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	5.4	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	5.2	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	5.0	pg/L	SW846 8290
Total HxCDD	ND	5.4	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	5.2	pg/L	SW846 8290
Total HpCDD	ND	5.2	pg/L	SW846 8290
OCDD	19 J,B		pg/L	SW846 8290
2,3,7,8-TCDF	ND	3.1	pg/L	SW846 8290
Total TCDF	ND	3.1	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	4.6	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	4.7	pg/L	SW846 8290
Total PeCDF	ND	4.7	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	4.2	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	3.9	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	4.5	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	4.7	pg/L	SW846 8290
Total HxCDF	ND	4.7	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	11 J		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	3.9	pg/L	SW846 8290
Total HpCDF	11		pg/L	SW846 8290
OCDF	22 J,JA		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	93	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	89	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	90	(40 - 135)
13C-OCDD	104	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	80	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)

NOTE(S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- JA The analyte was positively identified, but the quantitation is an estimate.

Field & Technical Services, LLC

Client Sample ID: DUPLICATE 002

Trace Level Organic Compounds

Lot-Sample #...: G7D190255-006 Work Order #...: JT8X71AA Matrix.....: WATER
 Date Sampled...: 04/17/07 Date Received...: 04/18/07
 Prep Date.....: 04/25/07 Analysis Date...: 04/27/07
 Prep Batch #...: 7116503
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	3.7	pg/L	SW846 8290
Total TCDD	ND	3.7	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	7.3	pg/L	SW846 8290
Total PeCDD	ND	7.3	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	6.6	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	21 J		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	6.0	pg/L	SW846 8290
Total HxCDD	70		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	750		pg/L	SW846 8290
Total HpCDD	1400		pg/L	SW846 8290
OCDD	8400 B		pg/L	SW846 8290
2,3,7,8-TCDF	ND	2.9	pg/L	SW846 8290
Total TCDF	ND	2.9	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	5.1	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	5.2	pg/L	SW846 8290
Total PeCDF	ND	5.2	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	4.9	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	4.5	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	5.2	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	5.4	pg/L	SW846 8290
Total HxCDF	60		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	110		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	5.8	pg/L	SW846 8290
Total HpCDF	550		pg/L	SW846 8290
OCDF	860		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	89	(40 - 135)
13C-1,2,3,7,8-PeCDD	100	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	97	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	80	(40 - 135)
13C-1,2,3,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	83	(40 - 135)

NOTE (S) :

- J Estimated result. Result is less than the reporting limit.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL

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May 7, 2007

STL SACRAMENTO PROJECT NUMBER: G7D170312
PO/CONTRACT: pending

Angie Gatchie
Field & Technical Services, LL
200 Third Avenue
Carnegie, PA 15106

Dear Ms. Gatchie,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on April 17, 2007. These samples are associated with your Beazer - Superior Supplemental project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,



Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G7D170312

General Comments

The samples were received at -2 degrees Celsius, but did not appear to be frozen.

WATER, 8290, Dioxins/Furans

Sample(s): 1, 2, 3, 4, Method Blank, Laboratory Control Sample

The ending continuing calibration verification showed a high %D for 1,2,3,4,7,8-HxCDD (-22%). An average relative response factor (calculated from beginning and ending standards) was used to quantitate any positive results for this analyte in the associated samples.

Sample(s): 2

The OCDD result for this sample has been flagged with a 'JA' qualifier since its ion ratio did not meet acceptance criteria. This result has been reported as an 'estimated maximum possible concentration' since its quantitation was based on a theoretical ion ratio.

There were no other anomalies associated with this project.

Sample Summary

G7D170312

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JT3W1	1	W-26A	4/16/2007 09:50 AM	4/17/2007 09:10 AM
JT3X0	2	W-39A	4/16/2007 01:05 PM	4/17/2007 09:10 AM
JT3X1	3	W-14A	4/16/2007 02:25 PM	4/17/2007 09:10 AM
JT3X4	4	FBO01-041607	4/16/2007 02:55 PM	4/17/2007 09:10 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Field & Technical Services, LLC

Client Sample ID: W-26A

Trace Level Organic Compounds

Lot-Sample #...: G7D170312-001 Work Order #...: JT3W11AA Matrix.....: WATER
 Date Sampled...: 04/16/07 Date Received...: 04/17/07
 Prep Date.....: 04/21/07 Analysis Date...: 04/29/07
 Prep Batch #...: 7111225
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	4.8	pg/L	SW846 8290
Total TCDD	ND	4.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	19	pg/L	SW846 8290
Total PeCDD	ND	19	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	17	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	16	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	15	pg/L	SW846 8290
Total HxCDD	ND	17	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	17	pg/L	SW846 8290
Total HpCDD	ND	17	pg/L	SW846 8290
OCDD	270		pg/L	SW846 8290
2,3,7,8-TCDF	ND	8.2	pg/L	SW846 8290
Total TCDF	ND	8.2	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	15	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	15	pg/L	SW846 8290
Total PeCDF	ND	15	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	13	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	12	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	14	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	14	pg/L	SW846 8290
Total HxCDF	ND	14	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	10	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	11	pg/L	SW846 8290
Total HpCDF	ND	11	pg/L	SW846 8290
OCDF	ND	26	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(40 - 135)
13C-1,2,3,7,8-PeCDD	87	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	99	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	94	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	92	(40 - 135)
13C-1,2,3,7,8-PeCDF	92	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	95	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	103	(40 - 135)

Field & Technical Services, LLC

Client Sample ID: W-39A

Trace Level Organic Compounds

Lot-Sample #...: G7D170312-002 Work Order #...: JT3X01AA Matrix.....: WATER
 Date Sampled...: 04/16/07 Date Received...: 04/17/07
 Prep Date.....: 04/21/07 Analysis Date...: 04/29/07
 Prep Batch #...: 7111225
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	8.7	pg/L	SW846 8290
Total TCDD	ND	8.7	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	35	pg/L	SW846 8290
Total PeCDD	ND	35	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	22	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	22	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	21	pg/L	SW846 8290
Total HxCDD	ND	22	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	18	pg/L	SW846 8290
Total HpCDD	ND	18	pg/L	SW846 8290
OCDD	65 JA		pg/L	SW846 8290
2,3,7,8-TCDF	ND	4.0	pg/L	SW846 8290
Total TCDF	ND	4.0	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	21	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	21	pg/L	SW846 8290
Total PeCDF	ND	21	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	19	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	18	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	20	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	21	pg/L	SW846 8290
Total HxCDF	ND	21	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	13	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	14	pg/L	SW846 8290
Total HpCDF	ND	14	pg/L	SW846 8290
OCDF	ND	28	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(40 - 135)
13C-1,2,3,7,8-PeCDD	84	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	98	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	94	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	87	(40 - 135)
13C-1,2,3,7,8-PeCDF	86	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	100	(40 - 135)

NOTE (S) :

JA The analyte was positively identified, but the quantitation is an estimate.

Field & Technical Services, LLC

Client Sample ID: W-14A

Trace Level Organic Compounds

Lot-Sample #...: G7D170312-003 Work Order #...: JT3X11AA Matrix.....: WATER
 Date Sampled...: 04/16/07 Date Received...: 04/17/07
 Prep Date.....: 04/21/07 Analysis Date...: 04/29/07
 Prep Batch #...: 7111225
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	4.3	pg/L	SW846 8290
Total TCDD	ND	4.3	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	29	pg/L	SW846 8290
Total PeCDD	ND	29	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	19	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	19	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	18	pg/L	SW846 8290
Total HxCDD	ND	19	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	53		pg/L	SW846 8290
Total HpCDD	130		pg/L	SW846 8290
OCDD	610		pg/L	SW846 8290
2,3,7,8-TCDF	ND	9.2	pg/L	SW846 8290
Total TCDF	ND	9.2	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	17	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	17	pg/L	SW846 8290
Total PeCDF	ND	17	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	16	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	15	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	17	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	18	pg/L	SW846 8290
Total HxCDF	ND	18	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	11	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	12	pg/L	SW846 8290
Total HpCDF	ND	12	pg/L	SW846 8290
OCDF	49		pg/L	SW846 8290

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	94	(40 - 135)
13C-1,2,3,7,8-PeCDD	86	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	105	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	99	(40 - 135)
13C-OCDD	102	(40 - 135)
13C-2,3,7,8-TCDF	98	(40 - 135)
13C-1,2,3,7,8-PeCDF	98	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	100	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	119	(40 - 135)

Field & Technical Services, LLC

Client Sample ID: FB001-041607

Trace Level Organic Compounds

Lot-Sample #...: G7D170312-004 Work Order #...: JT3X41AA Matrix.....: WATER
 Date Sampled...: 04/16/07 Date Received...: 04/17/07
 Prep Date.....: 04/21/07 Analysis Date...: 04/29/07
 Prep Batch #...: 7111225
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	6.8	pg/L	SW846 8290
Total TCDD	ND	6.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	11	pg/L	SW846 8290
Total PeCDD	ND	11	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	8.3	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	8.2	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	7.7	pg/L	SW846 8290
Total HxCDD	ND	8.3	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	8.8	pg/L	SW846 8290
Total HpCDD	ND	8.8	pg/L	SW846 8290
OCDD	ND	12	pg/L	SW846 8290
2,3,7,8-TCDF	ND	3.7	pg/L	SW846 8290
Total TCDF	ND	3.7	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	5.7	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	5.7	pg/L	SW846 8290
Total PeCDF	ND	5.7	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	5.9	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	5.6	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	6.4	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	6.5	pg/L	SW846 8290
Total HxCDF	ND	6.5	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	5.0	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	5.7	pg/L	SW846 8290
Total HpCDF	ND	5.7	pg/L	SW846 8290
OCDF	ND	11	pg/L	SW846 8290

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	85	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-OCDD	92	(40 - 135)
13C-2,3,7,8-TCDF	90	(40 - 135)
13C-1,2,3,7,8-PeCDF	95	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	94	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	101	(40 - 135)



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June 27, 2007

STL SACRAMENTO PROJECT NUMBER: G7F140368
PO/CONTRACT: Pending

Angie Gatchie
Field & Technical Services, LL
200 Third Avenue
Carnegie, PA 15106

Dear Ms. Gatchie,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 14, 2007. These samples are associated with your Beazer - Superior GW project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

For
Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G7F140368

General Comments

The samples were received at the lab at 1 degree Celsius, with wet ice used as the cooling agent.

WATER, 8290, Dioxins/Furans, HRGC/HRMS

Sample(s): 1, 2, 3

The laboratory control sample (LCS) associated with this extraction batch has recoveries for 2,3,4,6,7,8-HxCDF and 1,2,3,7,8,9-HxCDF above the established control limits indicating a possible high bias. As these samples are non-detect for these compounds there is no adverse impact upon the data.

There were no other anomalies associated with this project.

Sample Summary

G7F140368

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
J02T2	1	W-35A	6/13/2007 09:40 AM	6/14/2007 09:40 AM
J02VA	2	DUP01	6/13/2007	6/14/2007 09:40 AM
J02VG	3	EQ BLANK	6/13/2007 01:30 PM	6/14/2007 09:40 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Field & Technical Services, LLC

Client Sample ID: W-35A

Trace Level Organic Compounds

Lot-Sample #...: G7F140368-001 Work Order #...: J02T21AA Matrix.....: WATER
 Date Sampled...: 06/13/07 Date Received...: 06/14/07
 Prep Date.....: 06/15/07 Analysis Date...: 06/21/07
 Prep Batch #...: 7169278
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.47	pg/L	SW846 8290
Total TCDD	ND	1.2	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	0.64	pg/L	SW846 8290
Total PeCDD	ND	0.96	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.70	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	4.2 J		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	1.2	pg/L	SW846 8290
Total HxCDD	17		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	120		pg/L	SW846 8290
Total HpCDD	270		pg/L	SW846 8290
OCDD	1700		pg/L	SW846 8290
2,3,7,8-TCDF	ND	0.71	pg/L	SW846 8290
Total TCDF	ND	0.71	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	0.66	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	0.53	pg/L	SW846 8290
Total PeCDF	ND	0.66	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	3.6 J		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	1.1 J		pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.93	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.88	pg/L	SW846 8290
Total HxCDF	42		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	33 J		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	3.2 J		pg/L	SW846 8290
Total HpCDF	140		pg/L	SW846 8290
OCDF	100 J		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(40 - 135)
13C-1,2,3,7,8-PeCDD	104	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	98	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	90	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	92	(40 - 135)

NOTE(S):

J Estimated result. Result is less than the reporting limit.

Field & Technical Services, LLC

Client Sample ID: DUP01

Trace Level Organic Compounds

Lot-Sample #...: G7F140368-002 Work Order #...: J02VA1AA Matrix.....: WATER
 Date Sampled...: 06/13/07 Date Received...: 06/14/07
 Prep Date.....: 06/15/07 Analysis Date...: 06/21/07
 Prep Batch #...: 7169278
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.44	pg/L	SW846 8290
Total TCDD	ND	1.0	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	0.68	pg/L	SW846 8290
Total PeCDD	ND	0.83	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.63	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	3.3 J		pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	1.1 J		pg/L	SW846 8290
Total HxCDD	9.6		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	92		pg/L	SW846 8290
Total HpCDD	200		pg/L	SW846 8290
OCDD	1200		pg/L	SW846 8290
2,3,7,8-TCDF	ND	0.65	pg/L	SW846 8290
Total TCDF	ND	0.65	pg/L	SW846 8290
1,2,3,7,8-PeCDF	0.62 J		pg/L	SW846 8290
2,3,4,7,8-PeCDF	0.53 J		pg/L	SW846 8290
Total PeCDF	1.2		pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	2.8 J		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.62	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.69	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.78	pg/L	SW846 8290
Total HxCDF	28		pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	24 J		pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	2.6 J		pg/L	SW846 8290
Total HpCDF	100		pg/L	SW846 8290
OCDF	73 J		pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	102	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
13C-OCDD	91	(40 - 135)
13C-2,3,7,8-TCDF	81	(40 - 135)
13C-1,2,3,7,8-PeCDF	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	86	(40 - 135)

NOTE (S) :

J Estimated result. Result is less than the reporting limit.

Field & Technical Services, LLC

Client Sample ID: EQ BLANK

Trace Level Organic Compounds

Lot-Sample #....: G7F140368-003 Work Order #....: J02VG1AA Matrix.....: WATER
 Date Sampled....: 06/13/07 Date Received...: 06/14/07
 Prep Date.....: 06/15/07 Analysis Date...: 06/21/07
 Prep Batch #....: 7169278
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.45	pg/L	SW846 8290
Total TCDD	ND	1.1	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	0.64	pg/L	SW846 8290
Total PeCDD	ND	0.80	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	0.52	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	0.48	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	0.44	pg/L	SW846 8290
Total HxCDD	ND	0.96	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	2.1 J		pg/L	SW846 8290
Total HpCDD	2.1		pg/L	SW846 8290
OCDD	15 J		pg/L	SW846 8290
2,3,7,8-TCDF	ND	0.69	pg/L	SW846 8290
Total TCDF	ND	0.69	pg/L	SW846 8290
1,2,3,7,8-PeCDF	ND	0.37	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	0.37	pg/L	SW846 8290
Total PeCDF	ND	0.37	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.48	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.41	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.48	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	0.56	pg/L	SW846 8290
Total HxCDF	ND	0.56	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	0.66	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	0.46	pg/L	SW846 8290
Total HpCDF	0.99		pg/L	SW846 8290
OCDF	ND	1.2	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	89	(40 - 135)
13C-1,2,3,7,8-PeCDD	107	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	99	(40 - 135)
13C-OCDD	97	(40 - 135)
13C-2,3,7,8-TCDF	86	(40 - 135)
13C-1,2,3,7,8-PeCDF	94	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	92	(40 - 135)

NOTE(S):

J Estimated result. Result is less than the reporting limit.

ARCADIS BBL

Attachment 4

W-14A Data Trends



**State of Wisconsin
Department of Natural Resources**

**Mann-Kendall Statistical Test
Form 4400-215 (2/2001)**

Remediation and Redevelopment Program

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name : Koppers Superior, WI Facility			BRRTS No. =			Well Number = W-14A	
Compound ->		Naphthalene	Penta				
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	23-Jul-04	0.02	2.60				
2	19-Oct-04	0.02	1.60				
3	22-Feb-05	0.02	0.58				
4	19-Apr-05	0.03	9.90				
5	23-Oct-06	0.02	0.66				
6	16-Apr-07	0.02	1.90				
7							
8							
9							
10							
Mann Kendall Statistic (S) =		1.0	-1.0	0.0	0.0	0.0	0.0
Number of Rounds (n) =		6	6	0	0	0	0
Average =		0.02	2.87	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Standard Deviation =		0.004	3.526	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Coefficient of Variation(CV)=		0.188	1.227	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected				n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level		No Trend	No Trend	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level		No Trend	No Trend	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		CV ≤ 1 STABLE	CV > 1 NON-STABLE	n<4	n<4	n<4	n<4
Data Entry By = D.B.			Date = 15-Jun-07		Checked By = D.B.		

W-14A Pentachlorophenol Concentration vs. Time

