Gradient
CORPORATION

November 25, 2008

US EPA RECORDS CENTER REGION 5
467844

Ms. Terese VanDonsel
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson
Chicago, IL 60604-3590

Re: Remedy Performance Monitoring Results
Fields Brook Superfund Site, Ashtabula, OH

Dear Terese:

On behalf of the Fields Brook Action Group (FBAG), this letter report presents the results of the remedy performance monitoring performed in Exposure Units (EUs) 2 through 6 of the Fields Brook Superfund Site ("Site"). The monitoring requirements defined in the remedy Operations and Monitoring (O&M) Plan (O & M, 2004)[1] for the Sediment Operable Unit/Floodplain Wetland Area (SOU/FWA) were supplemented with additional samples to develop a comprehensive understanding of current environmental conditions. Overall, the sampling results indicate:

- Exceedances of the sediment PCBs remedial action level in EUs 4 and 6. Sediments from a localized area in EU6 will be excavated and disposed off-site, whereas the other remedial action level exceedances are marginal and do not pose a significant risk to human health and the environment.
    - The source control actions being undertaken by Millennium Inorganics Inc. (MIC) (*e.g.*, installation of interceptor trench at their facility) in response to US EPA's Order are expected to be beneficial to Fields Brook.
    - The Fields Brook relocation and restoration measures proposed in EU-8 (by FBAG and MIC) will offer further protection to the Brook and minimize the risk of future sediment contamination.
- Detrex marker compounds were detected in sediment, surface water, and/or soil in EU6 and other downstream EUs. These data, along with other observations (*e.g.*, DNAPL seeps at the North sewer), clearly indicate that Detrex source control measures have been ineffective and need to be investigated/supplemented. We understand that US EPA is in discussions with Detrex about this issue.

To summarize, the O&M Plan is working as intended, *i.e.*, providing the data needed to assess conditions in the Brook and to take appropriate remedial action, if needed. However, the success of the remedy for the Brook is predicated on effective source control, which is being addressed by US EPA with the appropriate parties.

The remainder of this letter discusses the monitoring program's scope, results, and findings in detail.

[1] O & M, Inc. 2004. Fields Brook Superfund Site Post-Closure Operations, Maintenance, and Monitoring Plan. March.

g:/
RemPerformance SamplingReport_rev 2

1 Monitoring Objectives

The O&M Plan for the SOU/FWA requires that sediment, soil, and surface water quality be monitored annually to assess remedy effectiveness and to ensure that the remedy remains protective of human health and the environment. Since elevated PCB concentrations had been detected in the EU8 and EU6 portions of Fields Brook, the routine O&M scope was expanded by including additional soil and sediment samples. The objectives of the expanded monitoring program were to:

1. Determine if PCBs found in soil/sediments in EU8 and EU6 had affected environmental conditions in further downstream EUs (2, 3, and 4); and
2. Determine the nature and extent of impacts for all key compounds of concern in Fields Brook, given concerns regarding source control effectiveness.

The following sections present the monitoring program and sampling results.

2 Monitoring Program

Sampling was conducted in two rounds – an initial event in June 2008 and a follow-up event in August 2008. As part of the June 2008 monitoring event, samples required by the remedy O&M Plan were collected in EUs 2, 3, 4, and 6. In addition, certain elements of the work proposed by MIC in EU-6 to satisfy the requirements of the Order issued by US EPA (to MIC) were also implemented to develop a comprehensive understanding of sediment and soil quality (Gradient and de maximis, 2008)[2].

Based on a review of the June 2008 sampling results, additional sediment samples were collected in EUs 4, 5, and 6 with the following objectives:

- Delineate the spatial extent of contaminated sediments in an area within EU-6 (FB-SD08; Figure 1) where elevated PCB and hexachlorobenzene (HCB) concentrations had been detected;
- Since the elevated PCB/HCB area in EU-6 was near the confluence of the DS Tributary and Fields Brook, sediment samples were collected in the DS Tributary to determine whether the EU6 PCB impacts were attributable to sediment contributions from the DS Tributary; and
- Generate a more robust sediment quality dataset in EUs 3 and 4.

Figures 1 to 3 present the sampling locations and Table 1 summarizes the scope of the two monitoring events.

3 Monitoring Results

A summary of the soil and sediment monitoring results for the key compounds of concern and a comparison of the detected concentrations to the applicable remedial action levels (also known as the Confidence Removal Goals or CRGs[3]) are presented in Tables 2 and 3, respectively. The soil

[2] Gradient Corporation and de maximis, Inc. 2008. Letter to T. VanDonsel (USEPA) re: Proposed Remedy Performance Monitoring Plan for EU6, Fields Brook Superfund Site, Ashtabula, OH. May 28.
[3] Soil and sediment remedial action levels/CRGs are applicable on a point-by- point basis.

and sediment data for key compounds such as PCBs, HCB, hexachlorobutadiene and chlorinated volatile organic compounds (CVOCs) by EU, are presented in Figures 4 through 12. The complete data tables for soil, sediment and surface water are presented in Appendix A.

3.1 PCBs

PCBs were detected in a number of Fields Brook floodplain soil and sediment samples, with the highest concentrations generally being detected in EU-6 (Figures 4 through 6). No exceedances of the soil remedial action level for PCBs were observed in any of the floodplain soil samples. This indicates that deposition of sediments onto the floodplain during high water conditions is not adversely affecting floodplain soil quality.

Exceedances of the sediment remedial action level for total PCBs were observed in EUs 6 and 4, with none noted in EUs 2 and 3 (Figure 4 to 6). In EU6, remedial action level exceedances were noted in 6 out of 26 sediment samples (Figure 4).[4] However, except for one value (130 mg/kg at FB-SD08), the other exceedances were marginally greater than the remedial action level, *i.e.*, a factor of 1.2 to 2.4 times the remedial action level. Sediment samples collected in the immediate vicinity of FB-SD08 to delineate the extent of contamination found elevated PCB concentrations to be rather limited since low concentrations, below the remedial action level, were detected in these samples (Figure 4). Sediments at FB-SD08 will be excavated and disposed off-site. The remaining remedial action level exceedances are marginal and human health carcinogenic risks after the removal of sediment from the FB-SD08 area will be on the order of 10^{-6}.

PCB concentrations in sediment in the downstream EUs (2, 3, and 4) were generally lower than in EU6. In EU4, PCB concentrations in sediments were on the order of 1 to 10 mg/kg, with one marginal remedial action level exceedance (17 vs. 9.2 mg/kg; Figure 5). No remedial action is needed in EU4 since human health carcinogenic risks are on the order of 10^{-6}. PCB sediment concentrations in EUs 2 and 3 were on the order of 1 mg/kg (Figure 6).

Overall, although PCB-impacted sediments were transported from EU8 to the downstream sections of Fields Brook, only one area (FB-SD08 in EU6) requires remedial action. In addition, the extensive PCB-related sediment and soil remediation work done by FBAG and MIC in EU-8 within the last year, and the proposed Brook relocation and reconstruction measures, are expected to minimize the risk of future contamination of sediments in EU-8 and the downstream mobilization of such sediments.

3.2 CVOCs/SVOCs

The distribution of CVOCs, HCB, and hexachlorobutadiene were examined since these were identified as risk-driving compounds (*i.e.*, have remedial action levels) and/or are marker compounds of Detrex Dense Non-Aqueous Phase Liquid (DNAPL).

CVOCs

CVOCs were detected in surface water and/or sediments in all EUs sampled (EUs 2, 3, 4, 5, and 6), with the highest concentrations and consistent detections being found in EUs 4 and 6 (Figures 10

[4] Note, the sediment CRG for PCBs was also marginally exceeded in one of the DS Tributary sediment samples collected near the confluence with Fields Brook (Figure 4). This is believed to be associated with sediment transport from Fields Brook and not related to a upstream source in DS Tributary since PCBs were not detected in all but one upstream sample.

through 13). CVOCs were also detected consistently in floodplain and subsurface soils in EU6. Key CVOC related findings are:

- High CVOC concentrations, (up to 1,195 mg/kg), were found in subsurface soils south of Fields Brook just west of State Road in EU6, on top of the lacustrine clay deposits, *i.e.*, approximately 8 to 10 feet below ground surface (bgs) (Figure 10). These elevated soil concentrations are clear indication that Detrex DNAPL has migrated along the top of the clay surface and accumulated in this area, a natural low spot in the clay's surface. Given the similarities in the depth of contamination (*i.e.*, top of clay) and the proximity of this area to the North Sewer (where DNAPL seeps were visible until FBAG installed a subsurface collection system) and the northern State Road Bridge abutment (where DNAPL is also believed to be present), it is likely that the DNAPL being found in these areas has a common origin, *i.e.*, Detrex source control ineffectiveness.
- CVOCs were also found in sediment and surficial soil samples collected in EU6, with the highest concentrations being found in the upstream portion, nearest to the North Sewer. These concentrations are attributable to former DNAPL seeps from the North Sewer that are now being contained by a subsurface trench installed by FBAG in the area.
- CVOCs were also detected in all surface water samples, including samples in EU2, located up to 6,400 feet downstream of State Road (Table 4 and Figure 13). In addition, a review of data from the prior rounds of sampling (2004, 2006) indicates similar findings. Although the detected concentrations are generally low, there are several troubling trends in these data (Figure 13):
    - In 2004/2006, total CVOC concentrations were significantly higher in EUs 6 and 4 in comparison to EU8, where levels were low to non-detectable.[5]
    - Total CVOC concentrations measured in EUs 6 and 4, both historically (2004/2006) and in the current round of sampling (2008), were relatively stable spatially and showed minimal attenuation with distance.
    - In fact, in the current round of sampling (2008), the highest concentrations were recorded downstream of the confluence of the DS Tributary and Fields Brook, *i.e.,* in EU-4.

  This pattern of stable concentrations in EUs 6 and 4 could be due to the potential presence of small Detrex DNAPL globules in the Brook sediments that continue to act as a source to surface water. Given the absence or low detections of CVOCs in EU8 surface water, the former DNAPL seepage at the North Sewer appears to be likely source of this material. Alternatively there could be sub-surface DNAPL inputs along the Brook.

Overall, the CVOC data clearly indicate that Detrex DNAPL is present within the FWA (south of Brook near State Road) and continued to migrate into the FWA/SOU *via* a subsurface migration mechanism after the initial Detrex source control measures were implemented (*e.g.*, former DNAPL seepage at North Sewer). These contaminant inputs are affecting sediment, floodplain soil, and surface water quality in the SOU and FWA.

[5] Note, no surface water samples were collected in EU8 in 2008 due to the remediation work that was ongoing at that time.

SVOCs

HCB and hexachlorobutadiene, Detrex DNAPL marker compounds, were consistently detected in floodplain soils and/or sediments in EUs 4, 5, and 6 (Figures 7 and 8). The highest HCB concentrations in sediment were found in EU-6, with an exceedance of the sediment HCB remedial action level noted just downstream of the confluence with DS Tributary (Figure 7). This localized sediment deposition area in EU-6 is targeted for remediation since elevated PCB concentrations had also been detected at this sampling location.

4 Conclusions

The comprehensive soil, sediment, and surface water quality sampling undertaken to assess environmental conditions in EUs 2 through 6 of Fields Brook indicate:

- PCBs were detected in floodplain soils and/or sediments in EUs 2, 3, 4, 5 and 6, with the highest concentrations recorded in EU6. No soil remedial action level exceedances were noted. The PCBs sediment remedial action level was exceeded in 6 samples in EU6, one sample in EU5 (believed to be backflow from EU6), and one sample in EU4. However, with the exception of one localized area in EU6, the other remedial action level exceedances were marginal (up to two times the remedial action level), and do not pose a significant risk to human health and the environment. The localized area in EU6 with the elevated PCBs will be remediated.
- The source of the PCBs detected in EU-6 and the downstream section of Fields Brook appears to have been PCB-impacted sediments/soils formerly present in EU8. The extensive PCB-related sediment and soil remediation work done by FBAG and MIC in EU-8 within the last year and the proposed Brook relocation and reconstruction measures, are expected to minimize the risk of future contamination of sediments in EU-8 and the downstream mobilization of such sediments.
- The ineffectiveness of Detrex's source control measures is leading to clearly discernable effects on sediment and surface water quality in EU6 and downstream portions of Fields Brook.
    - Elevated CVOC concentrations (up to 1,195 mg/kg) were detected in subsurface soils (8 to 10 feet bgs) south of Fields Brook and west of State Road. These data indicate that Detrex DNAPL has migrated along the top of the lacustrine clay surface into this area, which is located near the North sewer, where Detrex DNAPL seeps were discharging into Fields Brook until a subsurface containment trench was installed by FBAG.
    - CVOCs associated with Detrex DNAPL were detected in all 12 surface water samples collected in Fields Brook with the most downstream sample obtained over 6,400 feet from State Road. The CVOC concentrations were spatially stable in EUs 6 and 4, a trend that may be attributable to the presence of Detrex DNAPL globules in sediments that continue to feed the overlying water column, thus resulting in relatively constant surface water concentrations.

Overall, the remedial measures implemented to-date in EU-8 by FBAG and MIC and the proposed actions (*i.e.*, Brook restoration and relocation), are expected to offer long term protection of EU8 Brook sediments. The source control improvements undertaken at Detrex and MIC (*e.g.*,

installation of MIC and Detrex interceptor trenches) are also expected to be beneficial to the Brook. However, Detrex's source control measures along the western portion of their property, which are a subject of discussion between Detrex and US EPA, need to be adequately investigated/ supplemented.

We hope that this summary report provides you a useful overview of the data collected at Fields Brook in the recent months. We look forward to meeting with you and your colleagues. Please feel free to call if you have any questions or comments.

Yours truly,

GRADIENT CORPORATION

Manu Sharma, P.E.
Principal

Table 1
Sample Summary - June and August 2008
Fields Brook Superfund Site, Ashtabula, Ohio

Matrix :	Sediment [1]				Soil [2]			Surface Water [3]		
Date Sampled :	Total Sediment Samples	Jun-08		Aug-08	Total Soil Samples	Jun-08		Total Surface water Samples	Jun-08	
EUs		FBAG Routine Monitoring Samples	Millennium Proposed Samples	Supplemental Samples		FBAG Routine Monitoring Samples	Millennium Proposed Samples		FBAG Routine Monitoring Samples	Millennium Proposed Samples
EU-2	1	1	0	0	7	7	0	1	1	0
EU-3	7	3	0	4	4	4	0	3	3	0
EU-4	17	3	0	14	3	3	0	3	3	0
EU-5	8	0	0	8	0	0	0	0	0	0
EU-6	26	5	11	10	32	5	27	5	5	0

Notes:
1 - All FBAG, Millennium and supplemental sediment samples were analyzed for PCBs. All FBAG and select Millennium sediment samples were also analyzed for the full list of volatile and semi-volatile organic compounds, metals and radionuclides. EU-5 supplemental sediment samples were analyzed for the full list of volatile and semi-volatile organic compounds.
2 - All FBAG and Millennium soil samples were analyzed for PCBs. All FBAG and select Millennium soil samples were also analyzed for select volatile and semi-volatile organic compounds, metals and radionuclides.
3 - FBAG surface water samples were analyzed for PCBs, volatile and semi-volatile organic compounds, metals and radionuclides.

Table 2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds		CRGs		EU-2							EU-3			
				FB-SS01 0608	FB-SS02 0608	FB-SS03 0608	FB-SS04 0608	FB-SS05 0608	FB-SS06 0608	FB-SS07 0608	FB-SS08 0608	FB-SS09 0608	FB-SS10 0608	FB-SS11 0608
		Residential	Industrial											
VOCs	**(units are in mg/kg)**													
	Cis-1,2-Dichloroethene													
	Trichloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Chlorinated VOCs *			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs	**(units are in mg/kg)**													
	Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND	0.25	ND	ND
	Hexachlorobenzene	80	200	ND	ND	ND	0.85	ND	ND	ND	0.61	0.95	0.22	ND
PCBs	**(units are in mg/kg)**													
	Total PCBs	6	50	ND	ND	0.037	0.81	ND	ND	ND	0.33	0.89	1.2	0.03

Notes :
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.
(1). Laboratory analyzed "FB-SS 16" as a sediment sample (numerous VOC's, SVOC's, metals) instead of a soil sample which has a very short list (3 VOC's, 4 SVOC's and 2 metals). Data entered in this table was limited to the short list compoun
(2). There is no FB-SS19 sample the 2008 event due to the extensive soil sampling in EU-6.
Residential -FB-SS01 thru FB-SS11.

Table 2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds		CRGs		EU-4			EU-6															
		Residential	Industrial	FB-SS12 0608	FB-SS13 0608	FB-SS14 0608	FB-SS15 0608	FB-SS16 [1] 0608	FB-SS17 0608	FB-SS18 0608	FB-SS20 [2] 0608	ML-SS01 0608-06	ML-SS01 0608-18	ML-SS02 0608-06	ML-SS02 0608-24	ML-SS03 0608-06	ML-SS03 0608-18	ML-SS04 0608-06	ML-SS04 0608-80	ML-SS05 0608-06	ML-SS05 0608-48	ML-SS06 0608-06
VOCs	**(units are in mg/kg)**																					
	Cis-1,2-Dichloroethene													0.01	3.3				30			
	Trichloroethene			ND	ND	ND	ND	0.011	0.014	0.0071	0.034			0.015	0.0077				0.0065			
	Tetrachloroethene			0.0042	ND	ND	ND	0.02	0.017	0.008	ND			0.0053	ND				0.0036			
	1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	0.0061	ND	ND	ND			ND	ND				ND			
	Total Chlorinated VOCs *			0.0042	ND	ND	ND	0.037	0.031	0.015	0.034			0.030	3.3				30			
SVOCs	**(units are in mg/kg)**																					
	Hexachlorobutadiene			4.2	ND	ND	ND	1.7	0.19	ND	ND			0.23	0.32				2.4			
	Hexachlorobenzene	80	200	21	ND	ND	ND	3.2	1.5	2.4	10			0.67	0.4				4.1			
PCBs	**(units are in mg/kg)**																					
	Total PCBs	6	50	36	0.32	0.08	ND	10	2.5	1.5	ND	0.57	5.1	4.7	0.69	34	2.00	0.50	18	6.3	1.7	0.50

Notes :
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.
(1). Laboratory analyzed "FB-SS 16" as a sediment sample (numerous VOC's, SVOC's, metals) instead of a soil sample and metals.
(2). There is no FB-SS19 sample the 2008 event due to the extensive soil sampling in EU-6.
Residential -FB-SS01 thru FB-SS11.

Table 2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds		CRGs		EU-6																							
		Residential	Industrial	ML-SS06 0608-72	ML-SS07 0608-06	ML-SS07 0608-48	ML-SS08 0608-48	ML-SS09 0608-96	ML-SS10 0608-	ML-SS10 0608-96	ML-SS11 0608-72	ML-SS12 0608-96	ML-SS13 0608-120	ML-SS14 0608-120	ML-SS15 0608-120	MIC-SS08 060806	MIC-SS09 060806	MIC-SS10 060806	MIC-SS11 060806	MIC-SS12 060806	MIC-SS13 060806	MIC-SS14 060806	MIC-SS15 060806	MIC-SS16 060806	MIC-SS17 060806	MIC-SS18 060806	MIC-SS19 060806
VOCs	**(units are in mg/kg)**																										
	Cis-1,2-Dichloroethene			0.53				0.013		0.21	0.019	0.62	1.3	6.3	4.7												
	Trichloroethene			0.21				42		50	0.016	2	25	3.8	600	0.021	ND			0.015	0.0075			0.0018	0.004		0.0025
	Tetrachloroethene			0.18				84		36	0.014	1.7	18	9.6	590	0.0031	ND			0.0038	0.0078			0.0031	0.013		0.0083
	1,1,2,2-Tetrachloroethane			ND				0.0076		ND	ND	ND	ND	ND	0.024	ND	ND			ND	ND			ND	ND		ND
	Total Chlorinated VOCs *			0.920				126		86	0.049	4.3	44	20	1,195	0.024	ND			0.019	0.015			0.0049	0.017		0.011
SVOCs	**(units are in mg/kg)**																										
	Hexachlorobutadiene			2.6				0.7		ND	ND	1.4	0.18	1.4	2.5	0.43	ND			ND	0.63			ND	ND		ND
	Hexachlorobenzene	80	200	3.6				0.32		ND	0.25	1.4	1.2	2.3	ND	1.6	ND			0.56	0.68			0.37	0.43		ND
PCBs	**(units are in mg/kg)**																										
	Total PCBs	6	50	14	2.6	12	0.093	ND		0.50	0.25	5.2	6.8	2.5	ND	**50**	0.60	1.1	0.29	1.4	4.6	1.5	2.8	6.1	1.7	0.31	0.11

Notes :
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.
(1). Laboratory analyzed "FB-SS 16" as a sediment sample (numerous VOC's, SVOC's, metals) instead of a soil sam
(2). There is no FB-SS19 sample the 2008 event due to the extensive soil sampling in EU-6.
Residential -FB-SS01 thru FB-SS11.

Table 3
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

		EU-2		EU-3								EU-4						
List of Compounds		**EU2 CRGs**	**FB-SD01 0608**	**EU3 CRGs**	**FB-SD02 0608**	**FB-SD03 0608**	**FB-SD04 0608**	**FB-SD45 0808**	**FB-SD46 0808**	**FB-SD47 0808**	**FB-SD48 0808**	**EU4 CRGs**	**FB-SD05 0608**	**FB-SD06 0608**	**FB-SD07 0608**	**FB-SD31 0808**	**FB-SD32 0808**	**FB-SD33 0808**
VOCs	**(units are in mg/kg)**																	
	Cis-1,2-Dichloroethene		0.0017		0.0022	0.0082	0.0074						ND	0.0057	0.34			
	Trichloroethene		0.0032		0.0042	ND	ND						ND	0.013	ND			
	Tetrachloroethene		0.0026		ND	ND	ND						ND	0.0037	0.11			
	1,1,2,2-Tetrachloroethane		ND		ND	ND	ND						ND	0.0014	ND			
	Total Chlorinated VOCs *		0.0075		0.0064	0.0082	0.0074						ND	0.024	0.45			
SVOCs	**(units are in mg/kg)**																	
	Hexachlorobutadiene		ND		0.27	ND	ND						0.84	0.24	0.62			
	Hexachlorobenzene		ND	39	1.8	0.27	0.44					40	3.8	1.1	1.7			
PCBs	**(units are in mg/kg)**												0	0	0			
	Total PCBs		1.6	4.7	2.8	1.7	3.5	2	0.8	1.4	1.1	9.2	**17**	2.8	6	8.4	5.6	1.2

Notes:
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.

Table 3
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

		EU-4												EU-5							
List of Compounds		**FB-SD34 0808**	**FB-SD35 0808**	**FB-SD36 0808**	**FB-SD37 0808**	**FB-SD38 0808**	**FB-SD39 0808**	**FB-SD40 0808**	**FB-SD41 0808**	**FB-SD42 0808**	**FB-SD43 0808**	**FB-SD44 0808**	**EU5 CRGs**	**DS-SD01 0808**	**DS-SD02 0808**	**DS-SD03 0808**	**DS-SD04 0808**	**DS-SD05 0808**	**DS-SD06 0808**	**DS-SD07 0808**	**DS-SD08 0808**
VOCs	**(units are in mg/kg)**																				
	Cis-1,2-Dichloroethene													ND	ND	ND	0.015	0.0051	1.1	0.051	0.0
	Trichloroethene												1854	ND	ND	ND	0.084	0.0047	0.041	0.0096	ND
	Tetrachloroethene												392	ND	ND	ND	0.035	0.0024	0.11	ND	ND
	1,1,2,2-Tetrachloroethane												102	ND	ND	ND	ND	ND	0.064	ND	ND
	Total Chlorinated VOCs *													ND	ND	ND	0.13	0.012	1.3	0.061	0.0030
SVOCs	**(units are in mg/kg)**																				
	Hexachlorobutadiene													0.34	ND	0.63	0.44	1	0.64	7.8	21
	Hexachlorobenzene												39	3.9	0.27	5.7	4.7	18	1.3	6	11
PCBs	**(units are in mg/kg)**																				
	Total PCBs	1.4	7.3	1.3	2.8	8.6	1.2	1.6	2.7	2.1	4.2	1.5	6.4	**14**						0.89	

Notes:
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.

Table 3
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

			EU-6															
List of Compounds		**EU6 CRGs**	**FB-SD08 0608**	**FB-SD09 0608**	**FB-SD10 0608**	**FB-SD11 0608**	**FB-SD12 0608**	**FB-SD21 0808**	**FB-SD22 0808**	**FB-SD23 0808**	**FB-SD24 0808**	**FB-SD25 0808**	**FB-SD26 0808**	**FB-SD27 0808**	**FB-SD28 0808**	**FB-SD29 0808**	**FB-SD30 0808**
VOCs	**(units are in mg/kg)**																	
	Cis-1,2-Dichloroethene		0.27	0.08	0.003	0.0028	0.33											
	Trichloroethene	1854	0.11	0.039	ND	ND	0.099											
	Tetrachloroethene	392	0.27	0.034	ND	ND	0.047											
	1,1,2,2-Tetrachloroethane	102	0.0063	0.0026	ND	ND	ND											
	Total Chlorinated VOCs *		0.66	0.16	0.0030	0.0028	0.48											
SVOCs	**(units are in mg/kg)**																	
	Hexachlorobutadiene		78	0.77	ND	ND	0.76											
	Hexachlorobenzene	45	**53**	2.2	0.58	0.76	0.83											
PCBs	**(units are in mg/kg)**																	
	Total PCBs	7	**130**	**17**	1.6	**8.5**	2.2	2.7	**16.81**	1.8	6.4	4.3	4.9	4.8	**9.2**	2.8	**12**	

Notes:
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.

Table 3
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

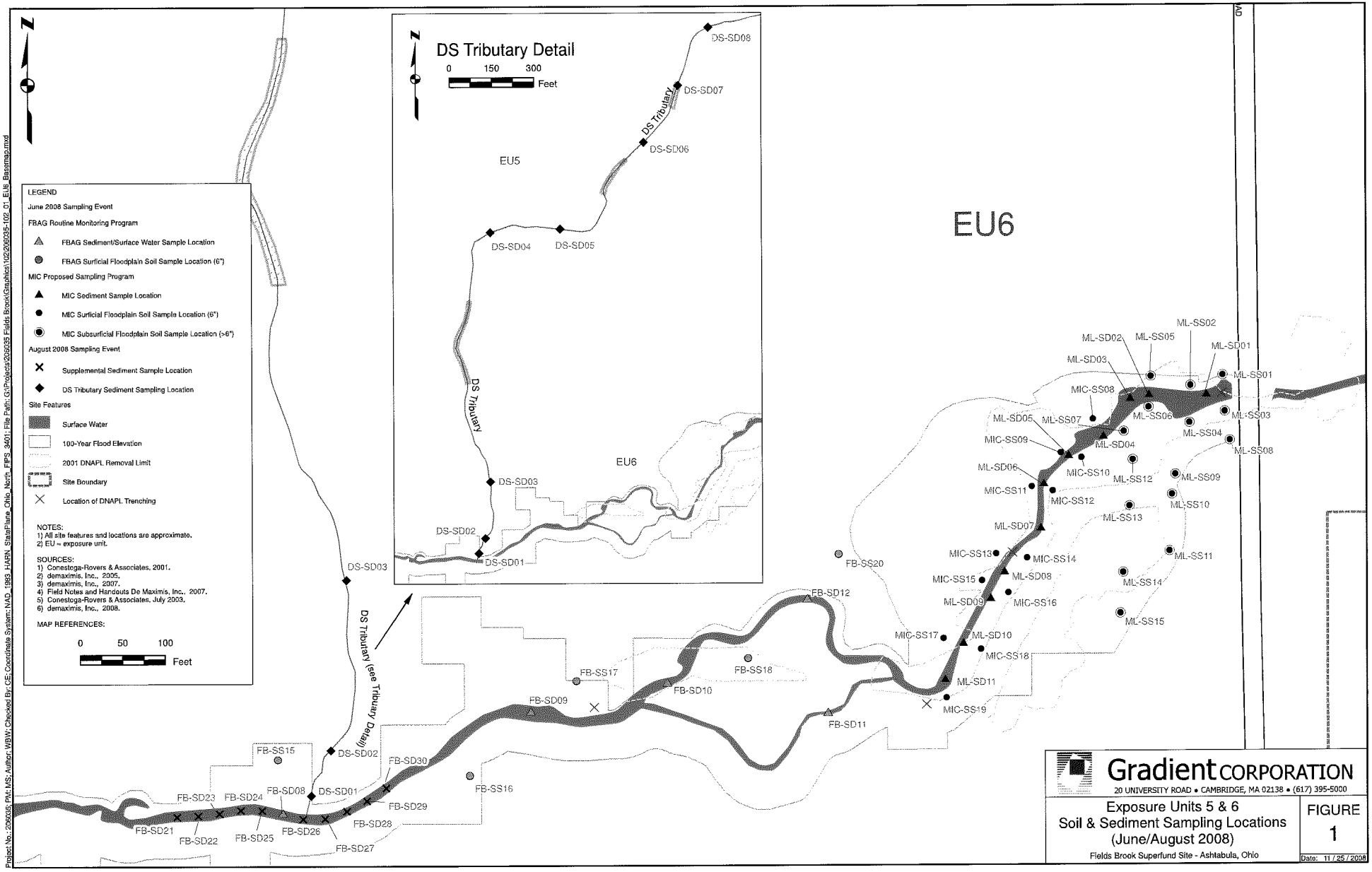
List of Compounds		EU-6										
		ML-SD01 0608-02	ML-SD02 0608-02	ML-SD03 0608-02	ML-SD04 0608-02	ML-SD05 0608-02	ML-SD06 0608-02	ML-SD07 0608-02	ML-SD08 0608-02	ML-SD09 0608-02	MLSD 10 0608-02	ML-SD11 0608-02
VOCs	**(units are in mg/kg)**											
	Cis-1,2-Dichloroethene	0.91	0.024	0.029	0.016		2.3	0.14				
	Trichloroethene	0.031	0.011	0.0034	0.0066		3.6	0.26				
	Tetrachloroethene	0.058	0.0052	0.0027	ND		1.8	0.19				
	1,1,2,2-Tetrachloroethane	0.022	0.002	0.0021	ND		ND	ND				
	Total Chlorinated VOCs *	1.0	0.042	0.037	0.023		7.7	0.59				
SVOCs	**(units are in mg/kg)**											
	Hexachlorobutadiene	ND	ND	ND	0.4	ND		ND				
	Hexachlorobenzene	0.36	0.5	0.35	0.8	0.28		0.42				
PCBs	**(units are in mg/kg)**											
	Total PCBs	2.1	3	2.4	6.9	1.5	3.6	1.7	4.5	2.3	3.9	2.3

Notes:
Blank cells - Compound was not analyzed
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*
Data in bold indicate exceedances of CRGs.

Table 4
Fields Brook 2008 Sampling Event
Summary of Analytical Results for Surface Water Samples

List of Compounds		EU-2	EU-3			EU-4			EU-6				
		FB-SW01 0608	FB-SW02 0608	FB-SW03 0608	FB-SW04 0608	FB-SW05 0608	FB-SW06 0608	FB-SW07 0608	FB-SW08 0608	FB-SW09 0608	FB-SW10 0608	FB-SW11 0608	FB-SW12 0608
VOCs	**(units are in µg/L)**												
	Cis-1,2-Dichloroethene	1.8	3	3.7	4.1	9.4	9.2	9.2	4.9	4.5	5.1	3.9	5.1
	Trichloroethene	1.3	2.5	2.8	3.8	7.3	6.9	7.3	5.2	4.9	5.2	4.8	4.6
	Tetrachloroethene	0.54	1.1	1.2	1.5	2.8	2.6	2.7	1.8	1.6	1.7	1.7	1.5
	1,1,2,2-Tetrachloroethane	1	2.2	3	1.2	5.4	4.6	4.4	4.5	1	1.1	0.84	0.98
	Total Chlorinated VOCs *	4.6	8.8	11	11	25	23	24	16	12	13	11	12
SVOCs	**(units are in µg/L)**												
	Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs	**(units are in µg/L)**												
	Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Blank cells - Compound was not analyzed.
ND - Non-detect.
** - Only the select VOCs listed above were included in the Total Chlorinated VOC calculation.*

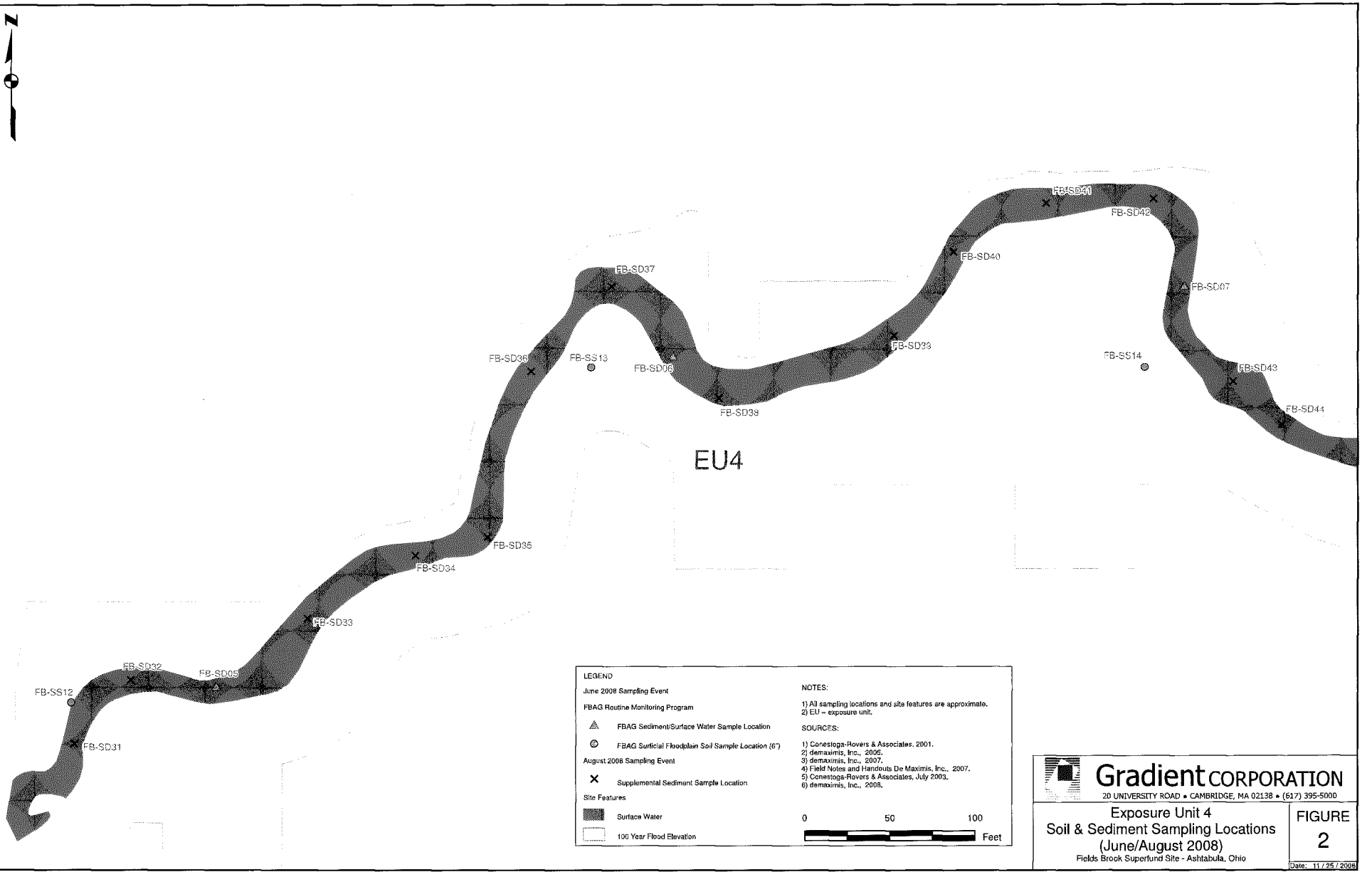


Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

Exposure Units 5 & 6
Soil & Sediment Sampling Locations
(June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE
1

Date: 11 / 25 / 2008



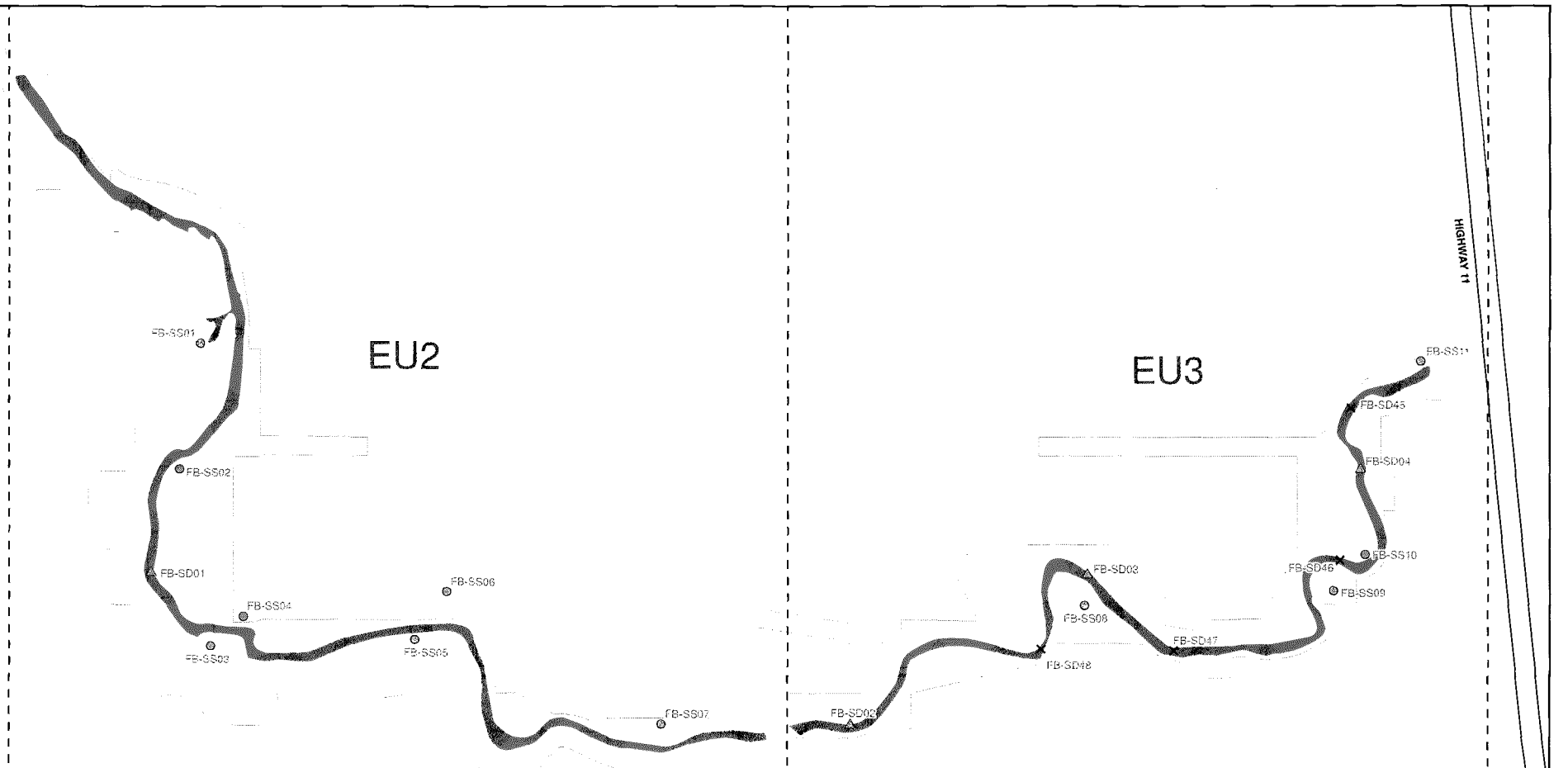
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

Exposure Unit 4
Soil & Sediment Sampling Locations
(June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE
2

Date: 11/25/2008

Project No.: 206035; FM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102206035-102_02_EU4_Basemap.mxd



LEGEND

June 2008 Sampling Event

FBAG Routine Monitoring Program

- FBAG Sediment/Surface Water Sample Location
- FBAG Surficial Floodplain Soil Sample Location (6")

August 2008 Sampling Event

- Supplemental Sediment Sample Location

Site Features

- Surface Water
- EU Division Line
- 100 Year Flood Elevation

NOTES:

1) All sampling locations and site features are approximate.
2) EU = exposure unit.

SOURCES:

1) Conestoga-Rovers & Associates. 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.

0 200 400 Feet

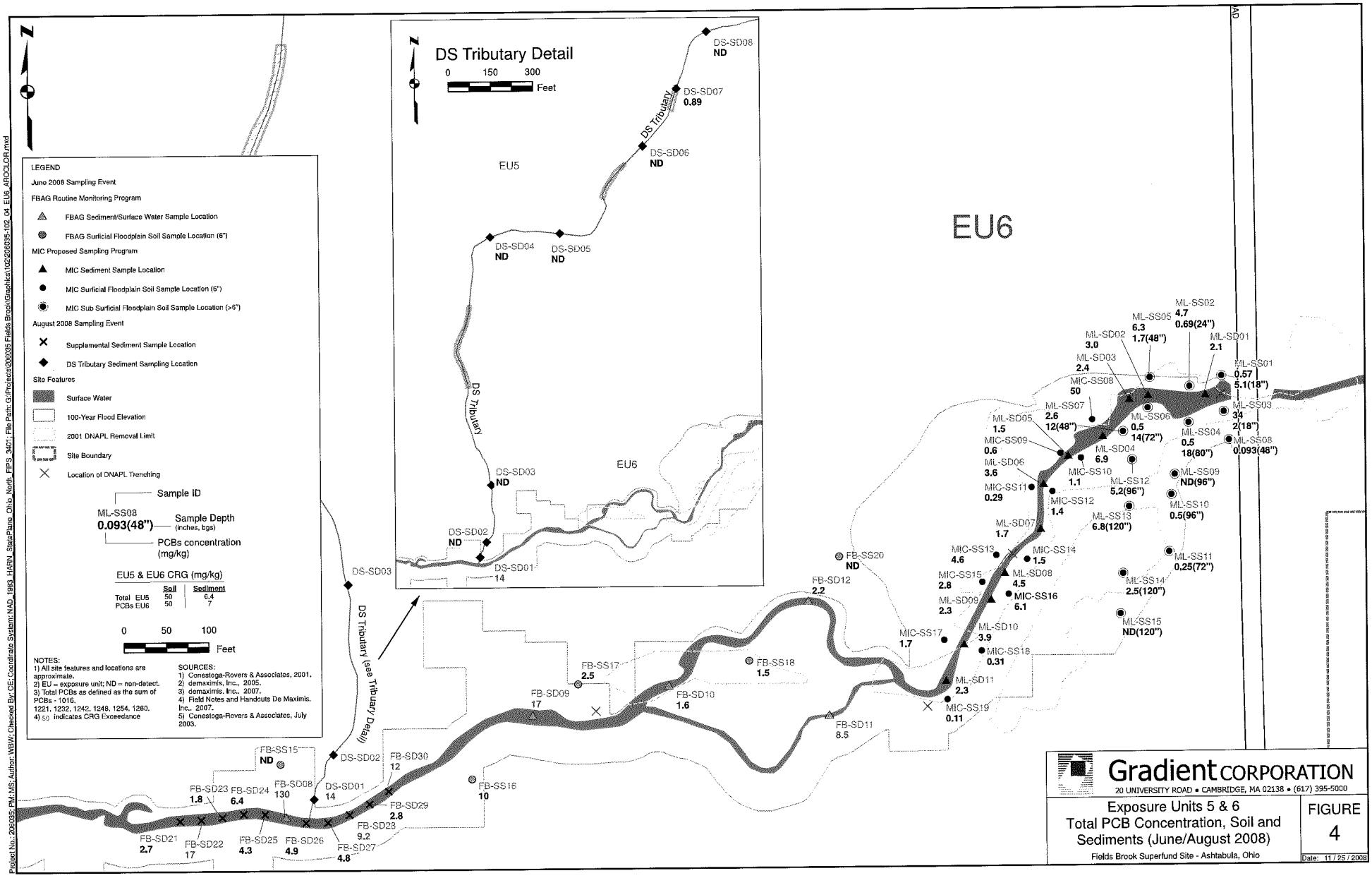
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

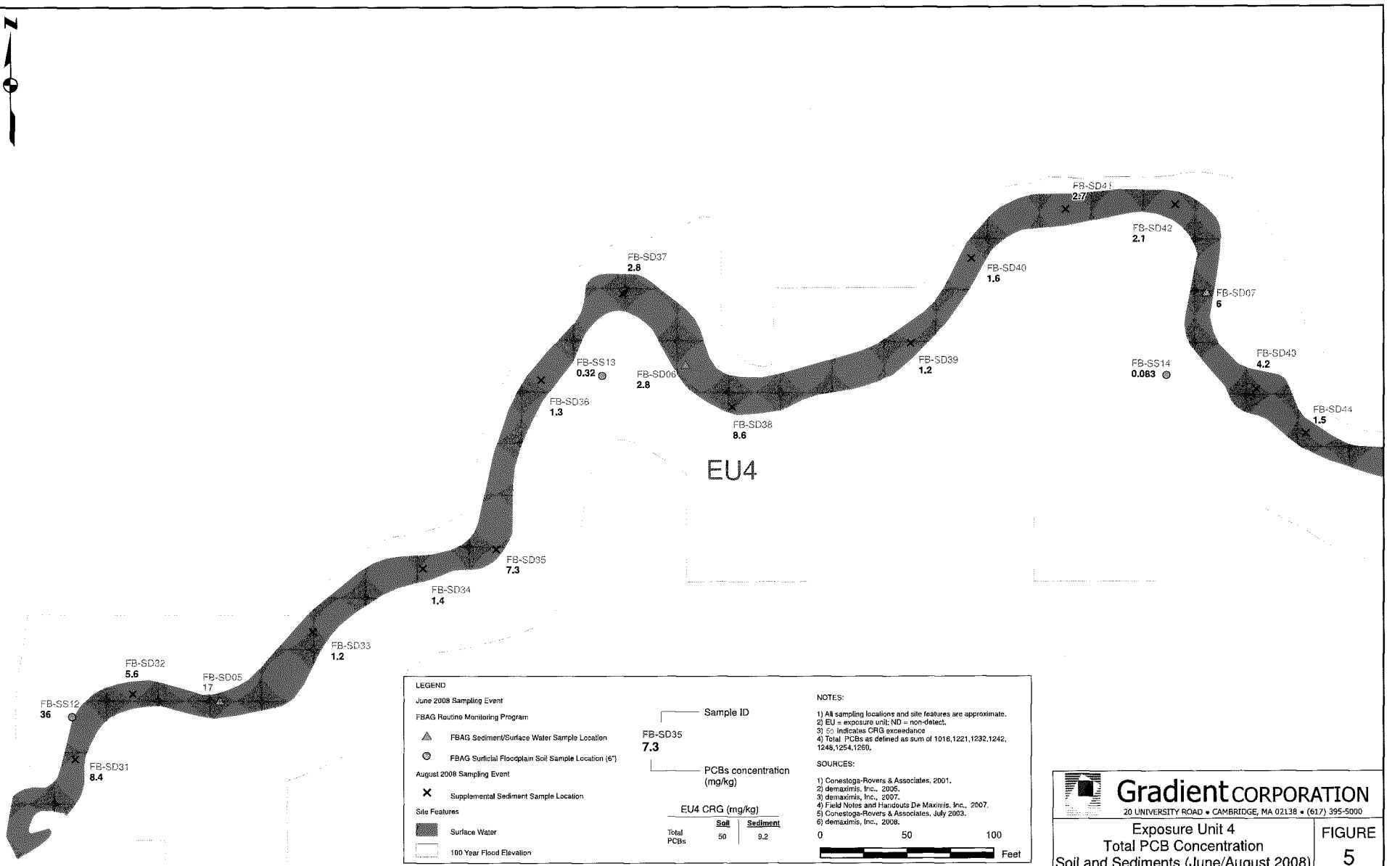
Exposure Units 2 & 3
Soil & Sediment Sampling Locations
(June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE
3

Date: 11/25/2008

Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102\206035-102_03_EU2-3_Basemap.mxd


DS Tributary Detail
0 150 300
Feet
EU5
EU6
DS Tributary
DS-SD08 ND
DS-SD07 0.89
DS-SD06 ND
DS-SD04 ND
DS-SD05 ND
DS-SD03 ND
DS-SD02 ND
DS-SD01 14
EU6
LEGEND
June 2008 Sampling Event
FBAG Routine Monitoring Program
FBAG Sediment/Surface Water Sample Location
FBAG Surficial Floodplain Soil Sample Location (6")
MIC Proposed Sampling Program
MIC Sediment Sample Location
MIC Surficial Floodplain Soil Sample Location (6")
MIC Sub Surficial Floodplain Soil Sample Location (>6")
August 2008 Sampling Event
Supplemental Sediment Sample Location
DS Tributary Sediment Sampling Location
Site Features
Surface Water
100-Year Flood Elevation
2001 DNAPL Removal Limit
Site Boundary
Location of DNAPL Trenching
Sample ID
ML-SS08
0.093(48")
Sample Depth (inches, bgs)
PCBs concentration (mg/kg)
EU5 & EU6 CRG (mg/kg)
Soil Sediment
Total PCBs EU5 50 6.4
PCBs EU6 50 7
0 50 100
Feet
NOTES:
1) All site features and locations are approximate.
2) EU = exposure unit; ND = non-detect.
3) Total PCBs as defined as the sum of PCBs - 1016, 1221, 1232, 1242, 1248, 1254, 1260.
4) 50 indicates CRG Exceedance
SOURCES:
1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
DS-SD03
DS Tributary (see Tributary Detail)
FB-SS15 ND
FB-SD23 1.8
FB-SD24 6.4
FB-SD08 130
DS-SD01 14
DS-SD02
FB-SD30 12
FB-SD29 2.8
FB-SD23 9.2
FB-SD27 4.8
FB-SD21 2.7
FB-SD22 17
FB-SD25 4.3
FB-SD26 4.9
FB-SD09 17
FB-SS17 2.5
FB-SS16 10
FB-SD10 1.6
FB-SS18 1.5
FB-SD11 8.5
FB-SD12 2.2
FB-SS20 ND
ML-SS02 4.7 0.69(24")
ML-SS05 6.3 1.7(48")
ML-SD02 3.0
ML-SD01 2.1
ML-SD03 2.4
ML-SS01 0.57 5.1(18")
MIC-SS08 50
ML-SS07 2.6 12(48")
ML-SS03 34 2(18")
ML-SD05 1.5
ML-SS06 0.5 14(72")
ML-SS04 0.5 18(80")
MIC-SS09 0.6
ML-SS08 0.093(48")
ML-SD04 6.9
ML-SD06 3.6
MIC-SS10 1.1
ML-SS09 ND(96")
MIC-SS11 0.29
ML-SS12 5.2(96")
MIC-SS12 1.4
ML-SS10 0.5(96")
ML-SS13 6.8(120")
ML-SD07 1.7
MIC-SS13 4.6
MIC-SS14 1.5
ML-SS11 0.25(72")
MIC-SS15 2.8
ML-SD08 4.5
ML-SS14 2.5(120")
MIC-SS16 6.1
ML-SD09 2.3
ML-SS15 ND(120")
MIC-SS17 1.7
ML-SD10 3.9
MIC-SS18 0.31
ML-SD11 2.3
MIC-SS19 0.11
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000
Exposure Units 5 & 6
Total PCB Concentration, Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio
FIGURE 4
Date: 11/25/2008
Project No.: 208035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\208035 Fields Brook\Graphics\102\208035-102_04_EU5_AROCLOR.mxd



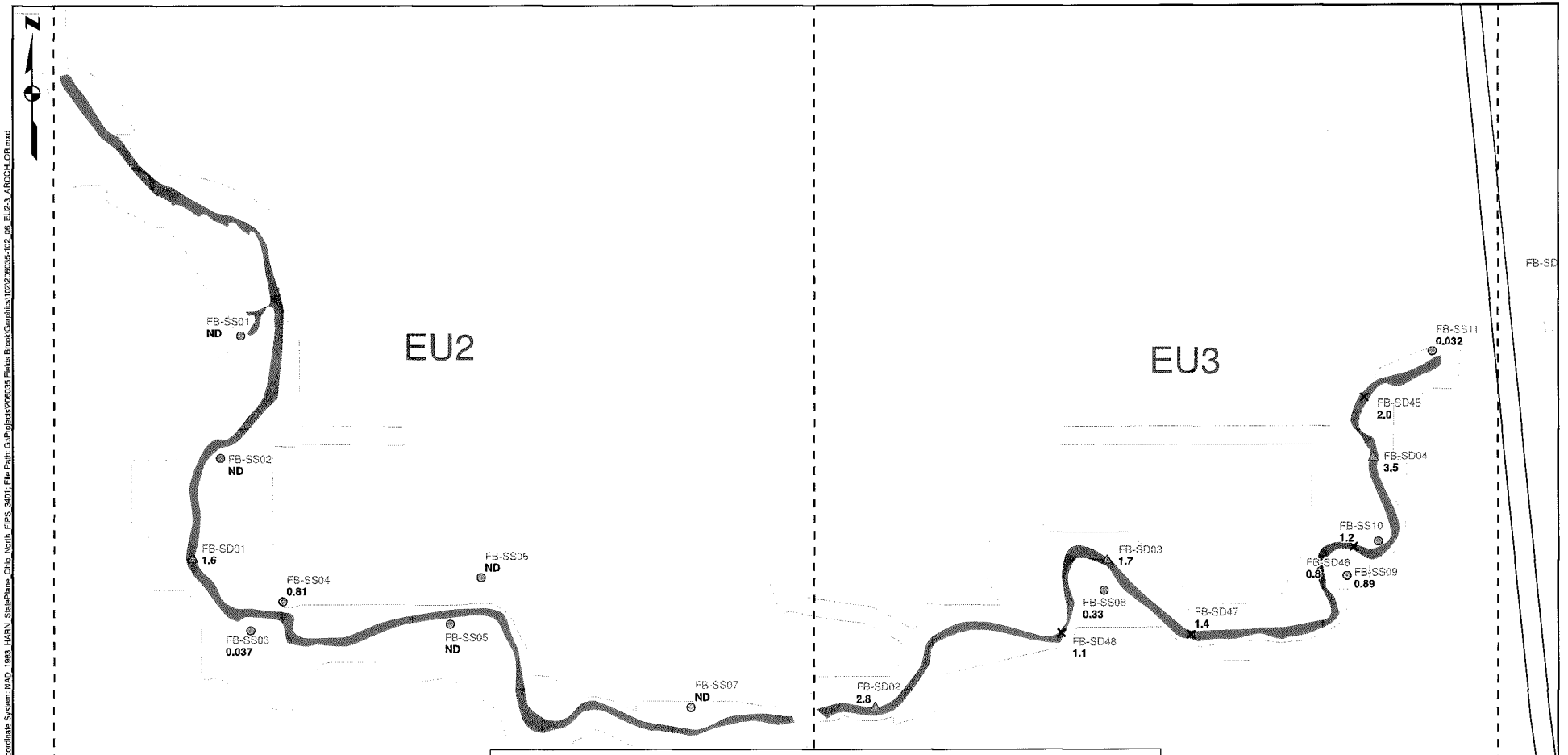
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

Exposure Unit 4
Total PCB Concentration
Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE
5

Date: 11 / 25 / 2008

Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102\206035-102_05_EU4_AROCHLOR.mxd



LEGEND

June 2008 Sampling Event

FBAG Routine Monitoring Program

FBAG Sediment/Surface Water Sample Location

FBAG Surficial Floodplain Soil Sample Location (6")

August 2008 Sampling Event

Supplemental Sediment Sample Location

Site Features

Surface Water

EU Division Line

100 Year Flood Elevation

Sample ID

FB-SD02

2.8

PCBs concentration (mg/kg)

EU2 & 3 CRG (mg/kg)

		Soil	Sediment
Total PCBs	EU2	6	-
	EU3	6	4.7

NOTES:

1) All sampling locations and site features are approximate.
2) EU = exposure unit; ND = non-detect.
3) Total PCBs as defined as sum of 1016,1221,1232,1242, 1248,1254,1260.

SOURCES:

1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.

0 200 400 Feet

Gradient CORPORATION

20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

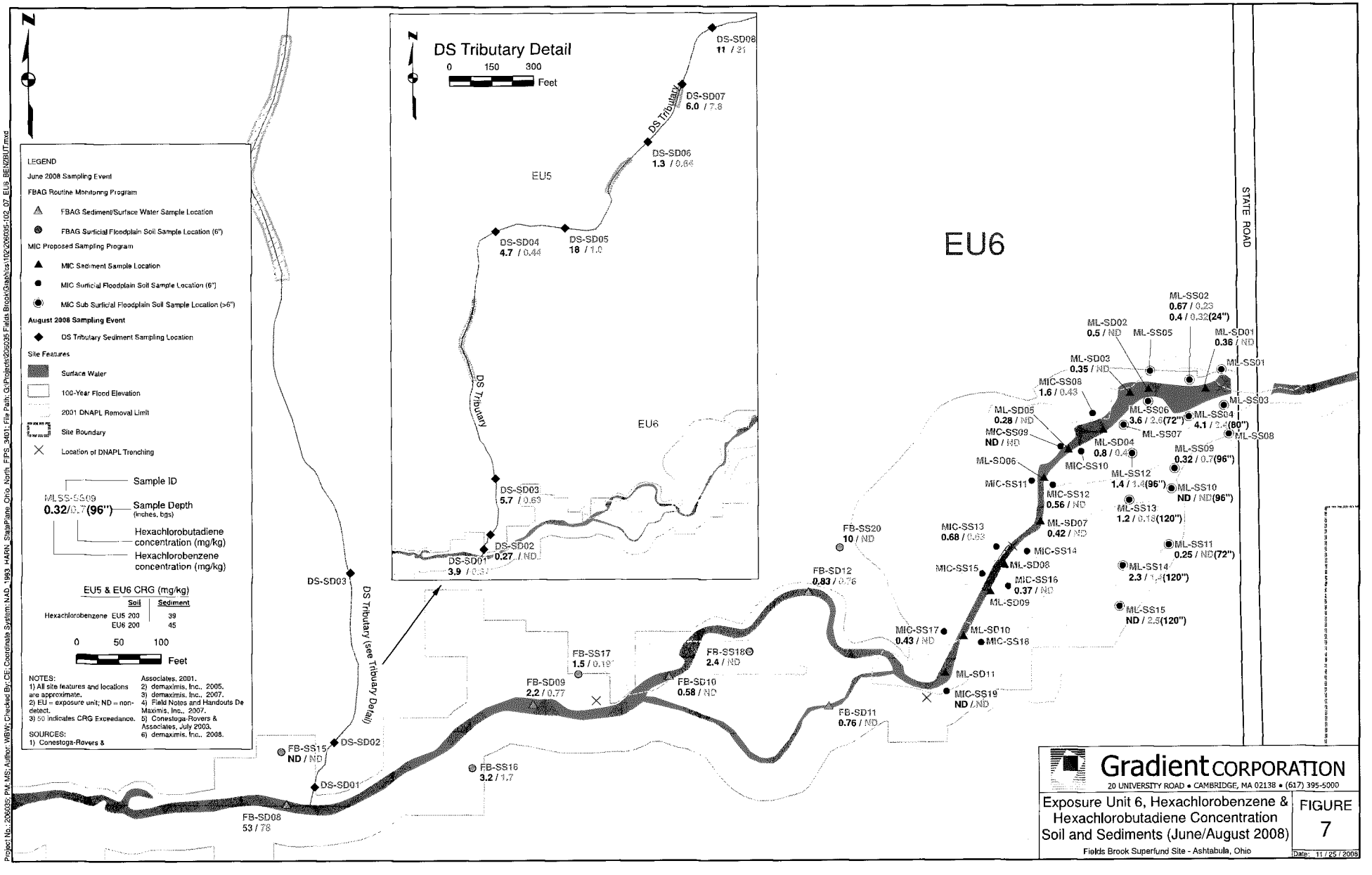
Exposure Units 2 & 3
Total PCB Concentration
Soil and Sediment (June/August 2008)

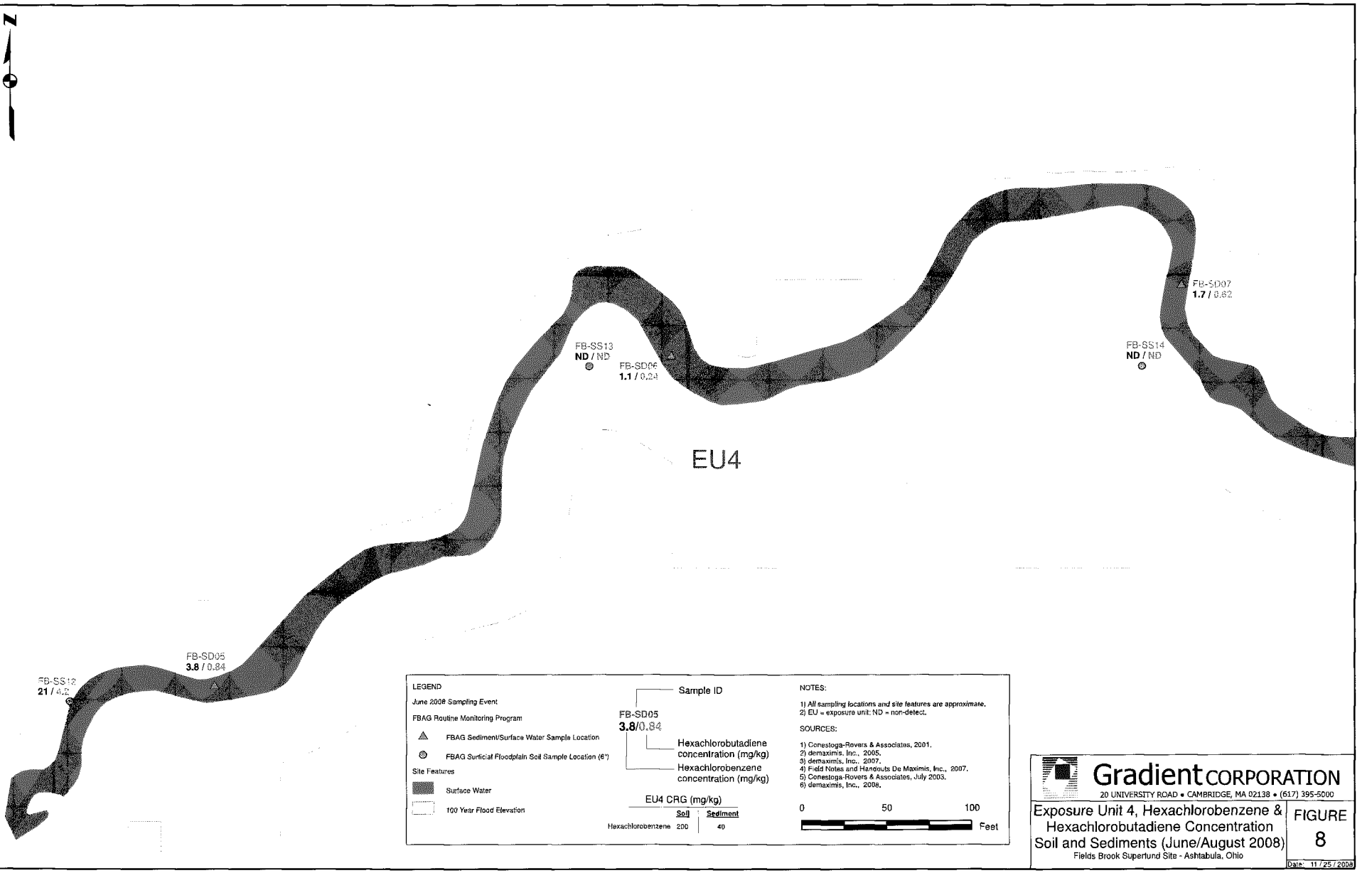
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE 6

Date: 11 / 25 / 2008

Project No. 206035; PM: MSI; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\122206035-102_06_EU2-3_AROCHLOR.mxd


DS Tributary Detail
0 150 300
Feet
EU5
EU6
DS Tributary
DS-SD08
11 / 21
DS-SD07
6.0 / 7.8
DS-SD06
1.3 / 0.64
DS-SD05
18 / 1.0
DS-SD04
4.7 / 0.44
DS-SD03
5.7 / 0.69
DS-SD02
0.27 / ND
DS-SD01
3.9 / 0.31
EU6
STATE ROAD
ML-SS02
0.67 / 0.23
0.4 / 0.32(24")
ML-SD02
0.5 / ND
ML-SS05
ML-SD01
0.36 / ND
ML-SD03
0.35 / ND
ML-SS01
MIC-SS08
1.6 / 0.43
ML-SS03
ML-SD05
0.28 / ND
ML-SS06
3.6 / 2.6(72")
ML-SS04
4.1 / 2.4(80")
MIC-SS09
ND / ND
ML-SS07
ML-SS08
ML-SD04
0.8 / 0.4
ML-SS09
0.32 / 0.7(96")
ML-SD06
MIC-SS10
ML-SS12
1.4 / 1.4(96")
MIC-SS11
MIC-SS12
0.56 / ND
ML-SS10
ND / ND(96")
ML-SS13
1.2 / 0.18(120")
ML-SD07
0.42 / ND
MIC-SS13
0.68 / 0.63
FB-SS20
10 / ND
MIC-SS14
ML-SS11
0.25 / ND(72")
MIC-SS15
ML-SD08
ML-SS14
2.3 / 1.4(120")
FB-SD12
0.83 / 0.76
MIC-SS16
0.37 / ND
ML-SD09
ML-SS15
ND / 2.5(120")
MIC-SS17
0.43 / ND
ML-SD10
MIC-SS18
ML-SD11
MIC-SS19
ND / ND
FB-SD11
0.76 / ND
FB-SS18
2.4 / ND
FB-SS17
1.5 / 0.19
FB-SD10
0.58 / ND
FB-SD09
2.2 / 0.77
FB-SS16
3.2 / 1.7
FB-SS15
ND / ND
DS-SD03
DS-SD02
DS-SD01
DS Tributary (see Tributary Detail)
FB-SD08
53 / 78
LEGEND
June 2008 Sampling Event
FBAG Routine Monitoring Program
FBAG Sediment/Surface Water Sample Location
FBAG Surficial Floodplain Soil Sample Location (6")
MIC Proposed Sampling Program
MIC Sediment Sample Location
MIC Surficial Floodplain Soil Sample Location (6")
MIC Sub Surficial Floodplain Soil Sample Location (>6")
August 2008 Sampling Event
DS Tributary Sediment Sampling Location
Site Features
Surface Water
100-Year Flood Elevation
2001 DNAPL Removal Limit
Site Boundary
Location of DNAPL Trenching
Sample ID
MLSS-SS09
0.32/0.7(96")
Sample Depth
(inches, bgs)
Hexachlorobutadiene concentration (mg/kg)
Hexachlorobenzene concentration (mg/kg)
EU5 & EU6 CRG (mg/kg)
Soil
Sediment
Hexachlorobenzene EU5 200 39
EU6 200 45
0 50 100
Feet
NOTES:
1) All site features and locations are approximate.
2) EU = exposure unit; ND = non-detect.
3) 50 indicates CRG Exceedance.
SOURCES:
1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000
Exposure Unit 6, Hexachlorobenzene & Hexachlorobutadiene Concentration Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio
FIGURE
7
Date: 11 / 25 / 2008
Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102\206035-102_07_EU6_BENZBUT.mxd



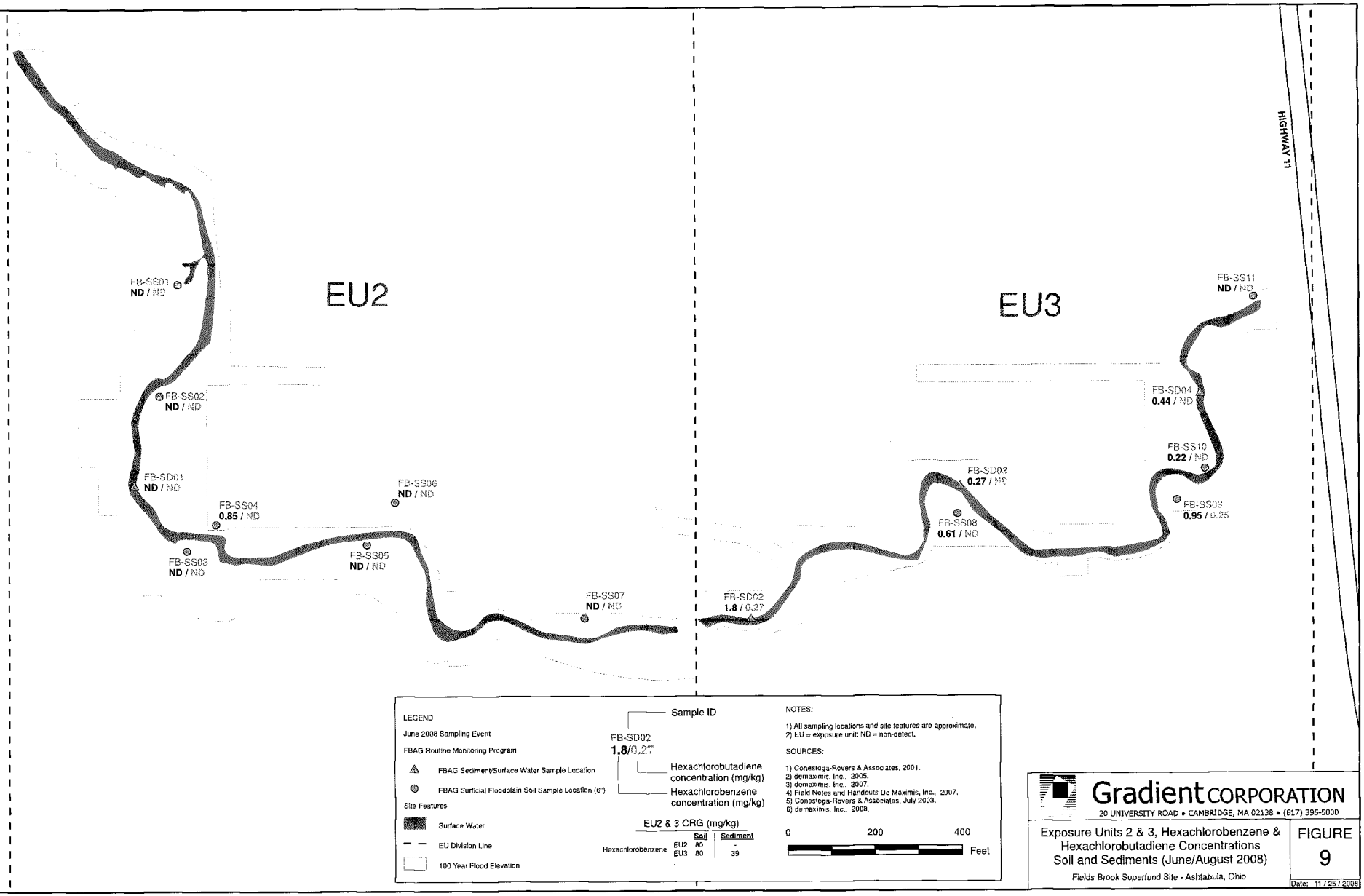
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

Exposure Unit 4, Hexachlorobenzene & Hexachlorobutadiene Concentration Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE 8

Date: 11/25/2008

Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102\206035-102_08_EU4_BENZBUT.mxd



Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000

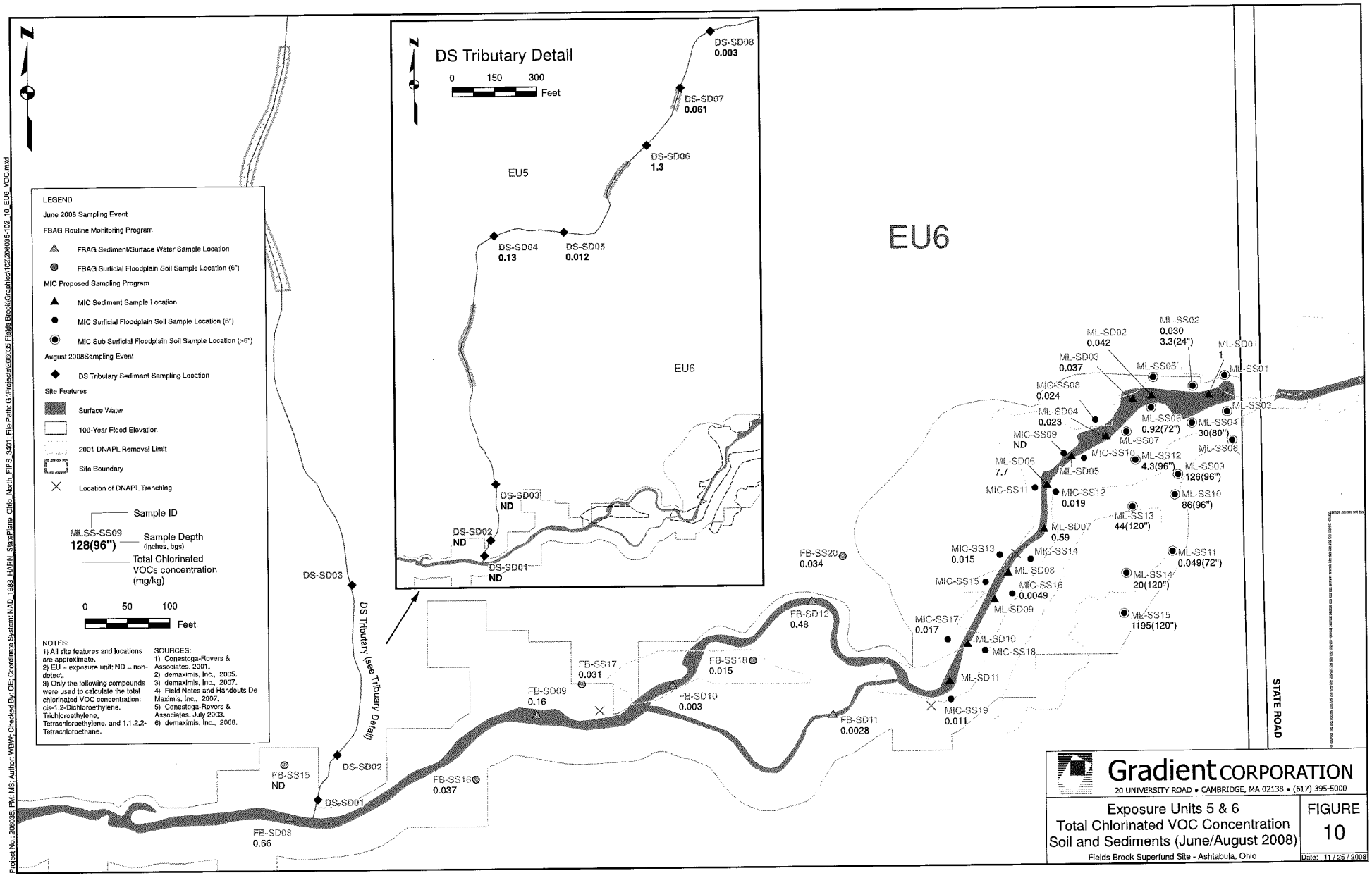
Exposure Units 2 & 3, Hexachlorobenzene & Hexachlorobutadiene Concentrations Soil and Sediments (June/August 2008)

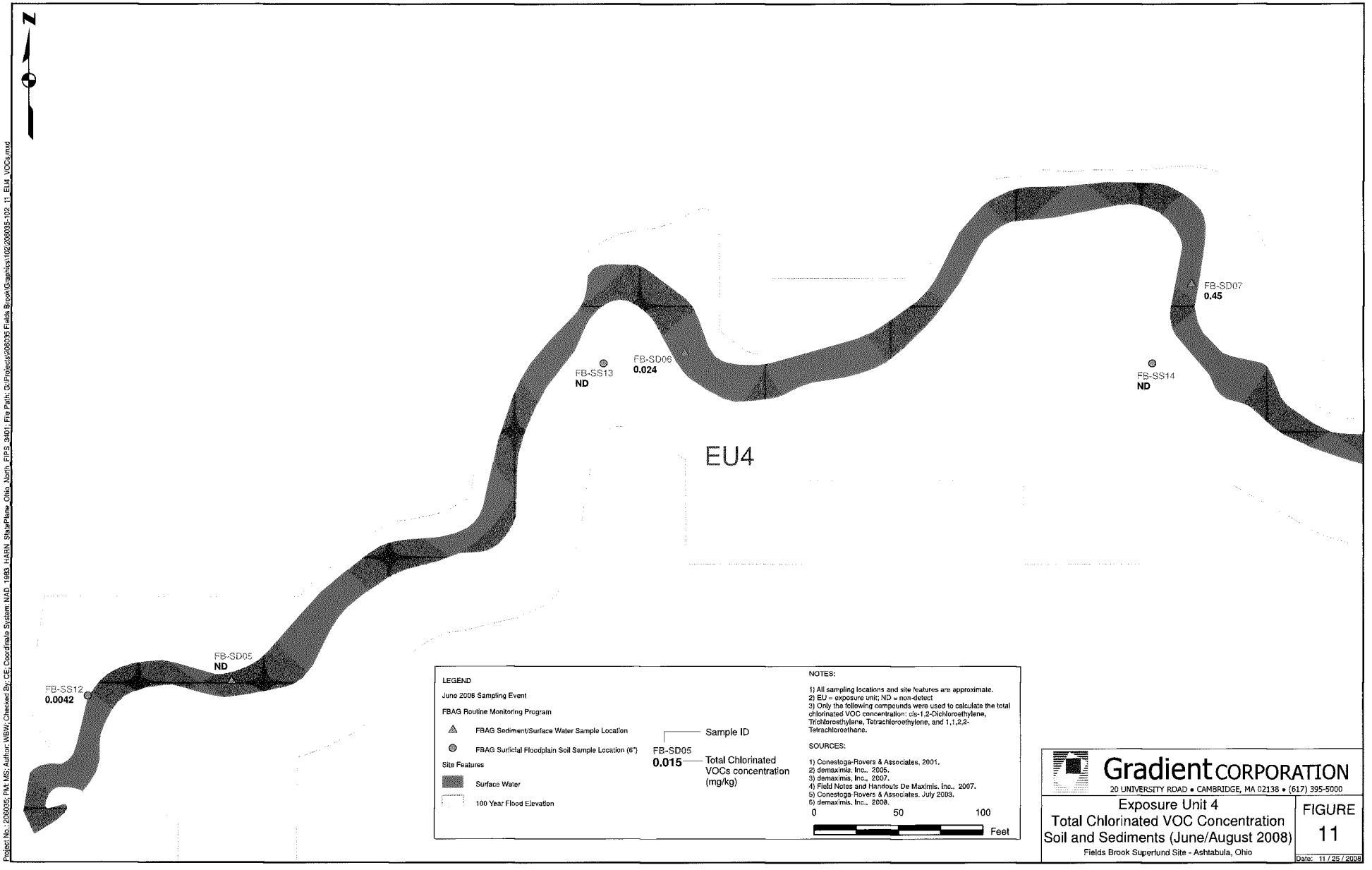
Fields Brook Superfund Site - Ashtabula, Ohio

FIGURE 9

Date: 11 / 25 / 2008

Project No.: 206035 PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\1011206035-101_30_EU2-3_BENZBUT


DS Tributary Detail
0 150 300
Feet
DS-SD08
0.003
DS-SD07
0.061
DS-SD06
1.3
EU5
DS-SD04
0.13
DS-SD05
0.012
EU6
DS-SD03
ND
DS-SD02
ND
DS-SD01
ND
EU6
LEGEND
June 2008 Sampling Event
FBAG Routine Monitoring Program
FBAG Sediment/Surface Water Sample Location
FBAG Surficial Floodplain Soil Sample Location (6")
MIC Proposed Sampling Program
MIC Sediment Sample Location
MIC Surficial Floodplain Soil Sample Location (6")
MIC Sub Surficial Floodplain Soil Sample Location (>6")
August 2008Sampling Event
DS Tributary Sediment Sampling Location
Site Features
Surface Water
100-Year Flood Elevation
2001 DNAPL Removal Limit
Site Boundary
Location of DNAPL Trenching
Sample ID
MLSS-SS09
128(96")
Sample Depth
(inches, bgs)
Total Chlorinated
VOCs concentration
(mg/kg)
0 50 100
Feet
NOTES:
1) All site features and locations are approximate.
2) EU = exposure unit; ND = non-detect.
3) Only the following compounds were used to calculate the total chlorinated VOC concentration: cis-1,2-Dichloroethylene, Trichloroethylene, Tetrachloroethylene, and 1,1,2,2-Tetrachloroethane.
SOURCES:
1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.
DS-SD03
DS Tributary (see Tributary Detail)
DS-SD02
DS-SD01
FB-SS15
ND
FB-SD08
0.66
FB-SS16
0.037
FB-SD09
0.16
FB-SS17
0.031
FB-SS18
0.015
FB-SD10
0.003
FB-SD11
0.0028
FB-SD12
0.48
FB-SS20
0.034
MIC-SS19
0.011
MIC-SS17
0.017
MIC-SS18
ML-SD11
ML-SD10
ML-SD09
MIC-SS15
MIC-SS16
0.0049
MIC-SS13
0.015
MIC-SS14
ML-SD08
ML-SD07
0.59
MIC-SS11
MIC-SS12
0.019
ML-SD06
7.7
ML-SD05
MIC-SS09
ND
MIC-SS10
ML-SD04
0.023
MIC-SS08
0.024
ML-SD03
0.037
ML-SD02
0.042
ML-SS02
0.030
3.3(24")
ML-SD01
1
ML-SS05
ML-SS01
ML-SS03
ML-SS06
0.92(72")
ML-SS04
30(80")
ML-SS07
ML-SS08
ML-SS12
4.3(96")
ML-SS09
126(96")
ML-SS10
86(96")
ML-SS13
44(120")
ML-SS11
0.049(72")
ML-SS14
20(120")
ML-SS15
1195(120")
STATE ROAD
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000
Exposure Units 5 & 6
Total Chlorinated VOC Concentration
Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio
FIGURE
10
Date: 11/25/2008
Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\102\206035-102_10_EU6_VOC.mxd


FB-SD07
0.45
FB-SS14
ND
FB-SD06
0.024
FB-SS13
ND
EU4
FB-SD05
ND
FB-SS12
0.0042
LEGEND
June 2006 Sampling Event
FBAG Routine Monitoring Program
FBAG Sediment/Surface Water Sample Location
FBAG Surficial Floodplain Soil Sample Location (6")
Site Features
Surface Water
100 Year Flood Elevation
Sample ID
FB-SD05
0.015
Total Chlorinated VOCs concentration (mg/kg)
NOTES:
1) All sampling locations and site features are approximate.
2) EU = exposure unit; ND = non-detect
3) Only the following compounds were used to calculate the total chlorinated VOC concentration: cis-1,2-Dichloroethylene, Trichloroethylene, Tetrachloroethylene, and 1,1,2,2-Tetrachloroethane.
SOURCES:
1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.
0
50
100
Feet
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000
Exposure Unit 4
Total Chlorinated VOC Concentration
Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio
FIGURE
11
Date: 11 / 25 / 2008
Project No.: 205035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD 1983 HARN StatePlane Ohio North FIPS 3401; File Path: G:\Projects\205035 Fields Brook\Graphics\1102\205035-102_11_EU4_VOCs.mxd

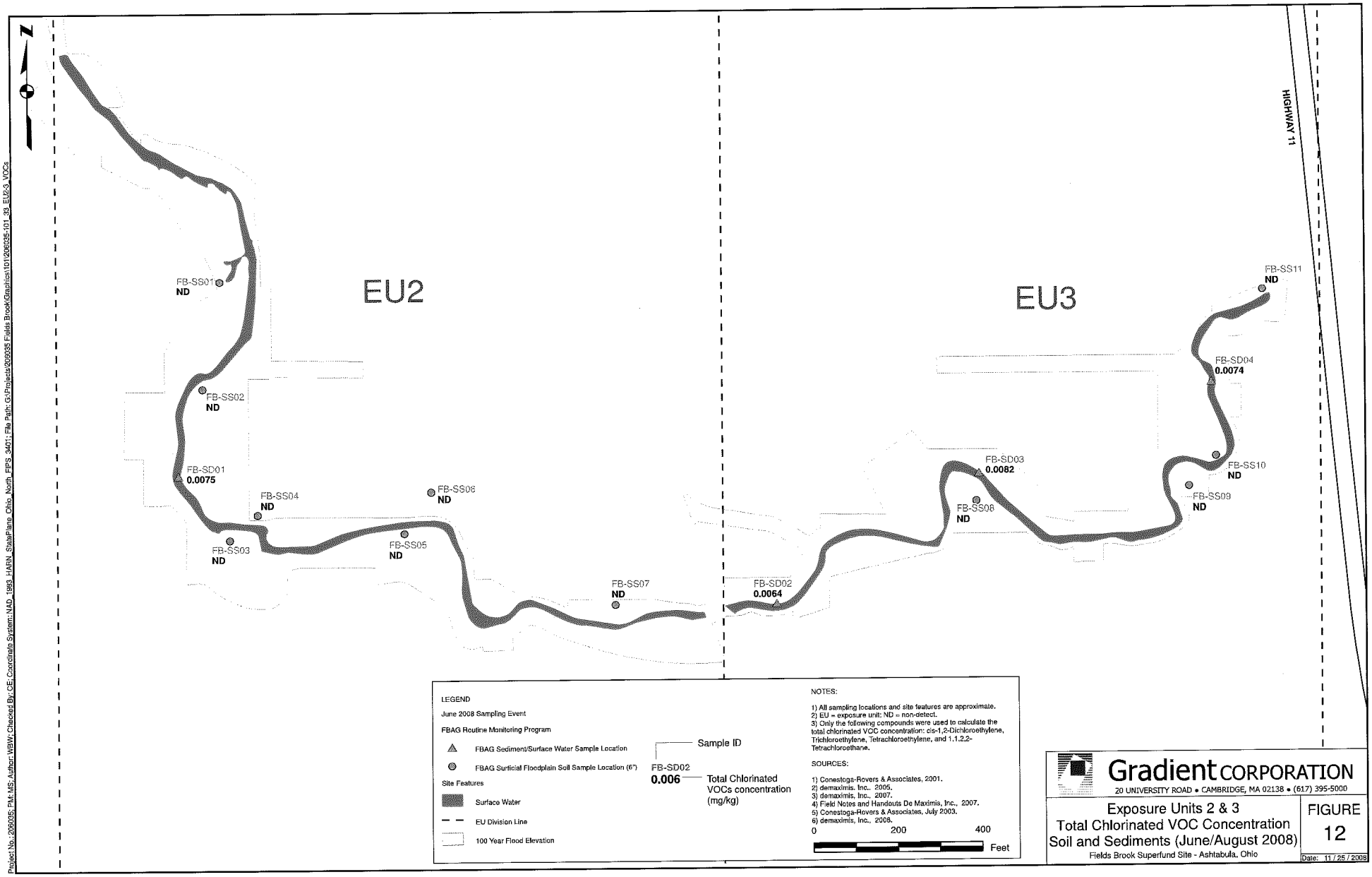
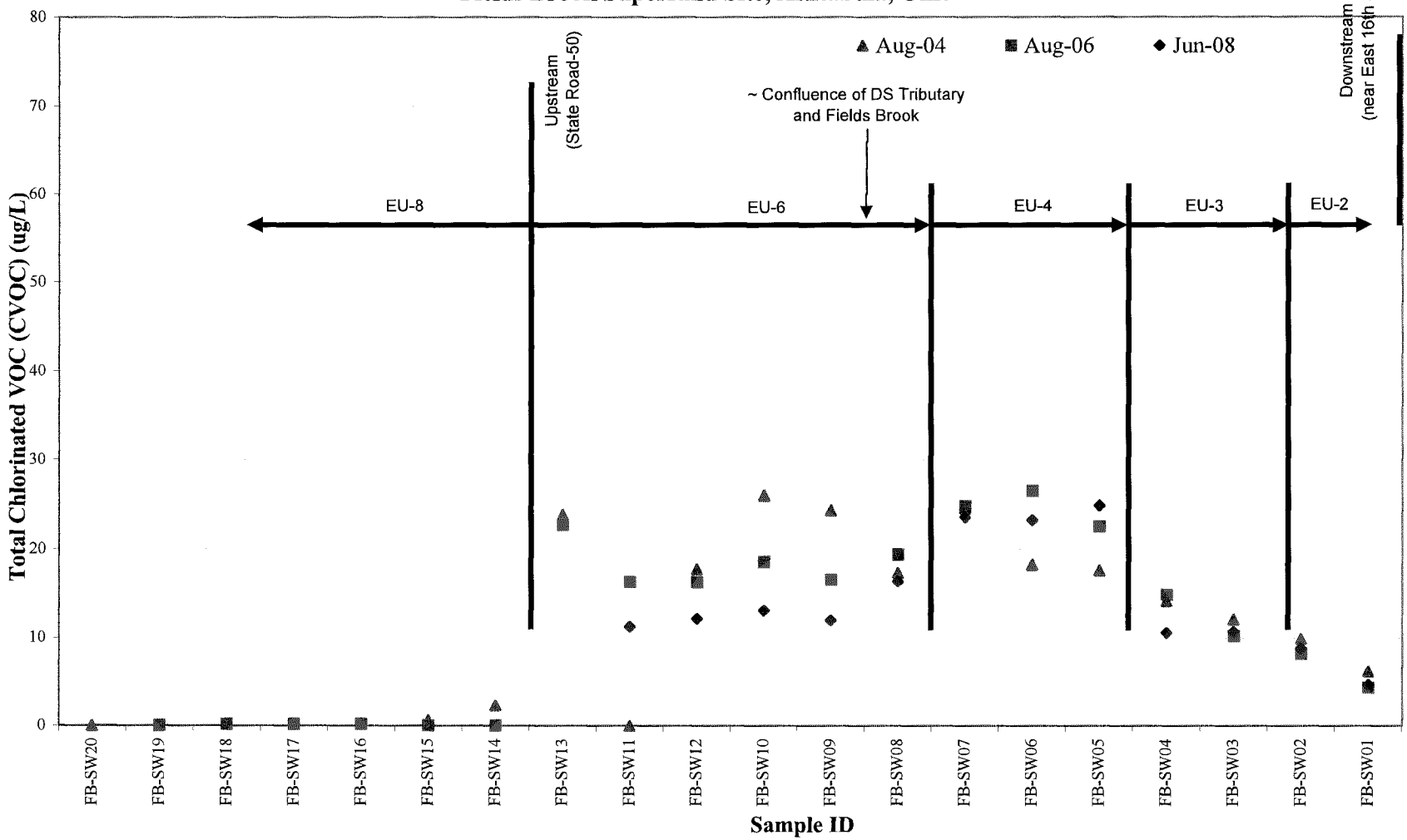

EU2
EU3
HIGHWAY 11
FB-SS01
ND
FB-SS02
ND
FB-SD01
0.0075
FB-SS04
ND
FB-SS03
ND
FB-SS06
ND
FB-SS05
ND
FB-SS07
ND
FB-SD02
0.0064
FB-SD03
0.0082
FB-SS08
ND
FB-SS10
ND
FB-SS09
ND
FB-SD04
0.0074
FB-SS11
ND
LEGEND
June 2008 Sampling Event
FBAG Routine Monitoring Program
FBAG Sediment/Surface Water Sample Location
FBAG Surficial Floodplain Soil Sample Location (6")
Sample ID
FB-SD02
0.006
Total Chlorinated VOCs concentration (mg/kg)
Site Features
Surface Water
EU Division Line
100 Year Flood Elevation
NOTES:
1) All sampling locations and site features are approximate.
2) EU = exposure unit; ND = non-detect.
3) Only the following compounds were used to calculate the total chlorinated VOC concentration: cis-1,2-Dichloroethylene, Trichloroethylene, Tetrachloroethylene, and 1,1,2,2-Tetrachloroethane.
SOURCES:
1) Conestoga-Rovers & Associates, 2001.
2) demaximis, Inc., 2005.
3) demaximis, Inc., 2007.
4) Field Notes and Handouts De Maximis, Inc., 2007.
5) Conestoga-Rovers & Associates, July 2003.
6) demaximis, Inc., 2008.
0
200
400
Feet
Gradient CORPORATION
20 UNIVERSITY ROAD • CAMBRIDGE, MA 02138 • (617) 395-5000
Exposure Units 2 & 3
Total Chlorinated VOC Concentration
Soil and Sediments (June/August 2008)
Fields Brook Superfund Site - Ashtabula, Ohio
FIGURE
12
Date: 11/25/2008
Project No.: 206035; PM: MS; Author: WBW; Checked By: CE; Coordinate System: NAD_1983_HARN_StatePlane_Ohio_North_FIPS_3401; File Path: G:\Projects\206035 Fields Brook\Graphics\101\206035-101_33_EU2-3_VOCs

Figure 13
Observed Total Chlorinated VOC (CVOC) Concentration in Surface Water
Fields Brook Superfund Site, Ashtabula, Ohio



Note : Only the following VOCs were included in the calculation of the Total Chlorinated VOC concentration:cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene, and 1,1,2,2-Tetrachloroethane.

Appendix A

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-2							EU-3				EU-4			EU-6		
	Residential	Industrial	FB-SS01 0608	FB-SS02 0608	FB-SS03 0608	FB-SS04 0608	FB-SS05 0608	FB-SS06 0608	FB-SS07 0608	FB-SS08 0608	FB-SS09 0608	FB-SS10 0608	FB-SS11 0608	FB-SS12 0608	FB-SS13 0608	FB-SS14 0608	FB-SS15 0608	FB-SS16 (1) 0608	FB-SS17 0608
VOCs (units are in mg/kg)																			
Dichlorodifluoromethane																			
Chloromethane																			
Vinyl Chloride																			
Bromomethane																			
Chloroethane																			
Trichlorofluoromethane																			
1,1-Dichloroethene																			
Carbon Disulfide																			
1,1,2-Trichloro-1,2,2-Trifluoroethane																			
Acetone																			
Methylene Chloride																			
Trans-1,2-Dichloroethene																			
Methyl-2-Butyl Ether																			
1,1-Dichloroethane																			
Cis-1,2-Dichloroethene																			
2-Butanone																			
Chloroform																			
1,1,1-Trichloroethane																			
Carbon Tetrachloride																			
Benzene																			
1,2-Dichloroethane																			
Trichloroethene			0.006 U	0.0058 U	0.0057 U	0.0076 U	0.0058 UJ	0.0075 U	0.006 U	0.0064 U	0.006 U	0.0057 U	0.0062 U	0.0082 U	0.0059 U	0.0058 U	0.0058 U	0.011	0.014
1,2-Dichloropropane																			
Bromodichloromethane																			
Cis-1,3-Dichloropropene																			
4-Methyl-2-Pentanone																			
Toluene																			
Trans-1,3-Dichloropropene																			
1,1,2-Trichloroethane																			
Tetrachloroethene			0.006 U	0.0058 U	0.0057 U	0.0076 U	0.0058 UJ	0.0075 U	0.006 U	0.0064 U	0.006 U	0.0057 U	0.0062 U	0.0042 J	0.0059 U	0.0058 U	0.0058 U	0.02	0.017
2-Hexanone																			
Dibromochloromethane																			
1,2-Dibromoethane																			
Chlorobenzene																			
Ethylbenzene																			
Styrene																			
Bromoform																			
Isopropylbenzene																			
1,1,2,2-Tetrachloroethane			0.006 U	0.0058 U	0.0057 U	0.0076 U	0.0058 UJ	0.0075 U	0.006 U	0.0064 U	0.006 U	0.0057 U	0.0062 U	0.0082 U	0.0059 U	0.0058 U	0.0058 U	0.0067	0.006 U
1,3-Dichlorobenzene																			
1,4-Dichlorobenzene																			
1,2-Dichlorobenzene																			
1,2-Dibromo-3-Chloropropane																			
1,2,4-Trichlorobenzene																			
Xylene (Total)																			
Methyl Acetate																			
Cyclohexane																			
Methylcyclohexane																			
M,P-Xylene																			
O-Xylene																			

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

			EU-6																
List of Compounds	CRGs		FB-SS18 0608	FB-SS20 (2) 0608	ML-SS01 0608-06	ML-SS01 0608-18	ML-SS02 0608-06	ML-SS02 0608-24	ML-SS03 0608-06	ML-SS03 0608-18	ML-SS04 0608-06	ML-SS04 0608-30	ML-SS05 0608-06	ML-SS05 0608-48	ML-SS06 0608-06	ML-SS06 0608-72	ML-SS07 0608-06	ML-SS07 0608-48
	Residential	Industrial																
VOCs (units are in mg/kg)																		
Dichlorodifluoromethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Chloromethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Vinyl Chloride							0.0072 U	0.53 J				5.8				0.21 J		
Bromomethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Chloroethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Trichlorofluoromethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1-Dichloroethene							0.0072 U	0.0072 J				0.12				0.014		
Carbon Disulfide							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1,2-Trichloro-1,2,2-Trifluoroethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Acetone							0.018 U	0.016 J				0.028				0.023		
Methylene Chloride							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Trans-1,2-Dichloroethene							0.0072 U	0.0015 J				0.035				0.013		
Methyl-T-Butyl Ether							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1-Dichloroethane							0.0072 U	0.0063 U				0.0013 J				0.0062 U		
Cis-1,2-Dichloroethene							0.01	3.3 J				30				0.53		
2-Butanone							0.018 U	0.016 U				0.016 U				0.015 U		
Chloroform							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1,1-Trichloroethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Carbon Tetrachloride							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Benzene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,2-Dichloroethane							0.0072 U	0.0063 U				0.0069				0.0062 U		
Trichloroethene			0.0071	0.034			0.015	0.0077 J				0.0065				0.21		
1,2-Dichloropropane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Bromodichloromethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Cis-1,3-Dichloropropene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
4-Methyl-2-Pentanone							0.018 U	0.016 U				0.016 U				0.015 U		
Toluene							0.0072 U	0.0063 U				0.0018 J				0.0014 J		
Trans-1,3-Dichloropropene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1,2-Trichloroethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Tetrachloroethene			0.008	0.0071 U			0.0053 J	0.0063 U				0.0036 J				0.18		
2-Hexanone							0.018 U	0.016 U				0.016 U				0.015 U		
Dibromochloromethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,2-Dibromoethane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Chlorobenzene							0.0072 U	0.0063 U				0.016				0.0097		
Ethylbenzene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Styrene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Bromoform							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Isopropylbenzene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,1,2,2-Tetrachloroethane			0.666 U	0.0071 U			0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,3-Dichlorobenzene							0.0072 U	0.0063 U				0.0064 U				0.0012 J		
1,4-Dichlorobenzene							0.0072 U	0.0063 U				0.0064 U				0.0019 J		
1,2-Dichlorobenzene							0.0072 U	0.0063 U				0.0039 J				0.01		
1,2-Dibromo-3-Chloropropane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
1,2,4-Trichlorobenzene							0.0072 U	0.0063 U				0.0036 J				0.011 U		
Xylene (Total)							0.022 U	0.019 U				0.019 U				0.019 U		
Methyl Acetate							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Cyclohexane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
Methylcyclohexane							0.0072 U	0.0063 U				0.0064 U				0.0062 U		
M,P-Xylene							0.014 U	0.013 U				0.013 U				0.012 U		
O-Xylene							0.0072 U	0.0063 U				0.0064 U				0.0062 U		

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-6																							
	Residential	Industrial	ML-SS08 0608-48	ML-SS09 0608-96	ML-SS10 0608-	ML-SS10 0608-96	ML-SS11 0608-72	ML-SS12 0608-96	ML-SS13 0608-120	ML-SS14 0608-120	ML-SS15 0608-120	MIC-SS08 060806	MIC-SS09 060806	MIC-SS10 060806	MIC-SS11 060806	MIC-SS12 060806	MIC-SS13 060806	MIC-SS14 060806	MIC-SS15 060806	MIC-SS16 060806	MIC-SS17 060806	MIC-SS18 060806	MIC-SS19 060806
VOCs (units are in mg/kg)																							
Dichlorodifluoromethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Chloromethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Vinyl Chloride				0.0057 U		0.56 U	0.006 U	0.0089	1 U	0.21 J	0.14												
Bromomethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Chloroethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Trichlorofluoromethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,1-Dichloroethene				0.0012 J		0.56 U	0.006 U	0.0083	0.086	0.074	22 U												
Carbon Disulfide				0.0057 U		0.56 U	0.006 U	0.0024 J	0.0061 U	0.0012 J	0.0017 J												
1,1,2-Trichloro-1,2,2-Trifluoroethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Acetone				0.011 J		0.41 J	0.18	0.11	0.18	0.04	0.016 U												
Methylene Chloride				0.0027 J		0.56 U	0.0015 J	0.0061 U	0.0061 U	0.0061 U	0.0021 J												
Trans-1,2-Dichloroethene				0.0057 U		0.56 U	0.006 U	0.022	0.08	0.03	0.074												
Methyl-T-Butyl Ether				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,1-Dichloroethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Cis-1,2-Dichloroethene				0.013		0.21 J	0.019	0.62	1.3	6.1	4.7 J												
2-Butanone				0.014 U		1.4 U	0.025	0.015 U	0.015 U	0.015 U	0.016 U												
Chloroform				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0014 J												
1,1,1-Trichloroethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Carbon Tetrachloride				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Benzene				0.0057 U		0.56 U	0.006 U	0.0021 J	0.0037 J	0.0061 U	0.0065 U												
1,2-Dichloroethane				0.0044 J		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.011												
Trichloroethene				42		50	0.016	2	25	3.8	600	0.021	0.0064 U			0.015	0.0075			0.0018 J	0.004 J		0.0025 J
1,2-Dichloropropane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Bromodichloromethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Cis-1,3-Dichloropropene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
4-Methyl-2-Pentanone				0.014 U		1.4 U	0.015 U	0.015 U	0.015 U	0.015 U	0.016 U												
Toluene				0.0037 U		0.56 U	0.006 U	0.0017 J	0.0022 J	0.0015 J	0.0063 J												
Trans-1,3-Dichloropropene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,1,2-Trichloroethane				2.3 J		0.35 J	0.006 U	0.0061 U	0.0061 U	0.0024 J	9.2 J												
Tetrachloroethene				84		36	0.014	1.7	18	9.6	590	0.0031 J	0.0064 U			0.0038 J	0.0078			0.0031 J	0.013		0.0083
2-Hexanone				0.014 U		1.4 U	0.015 U	0.015 U	0.015 U	0.015 U	0.016 U												
Dibromochloromethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,2-Dibromoethane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Chlorobenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.005 J	0.0065 U												
Ethylbenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Styrene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Bromoform				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Isopropylbenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,1,2,2-Tetrachloroethane				0.0076		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.024	0.0072 U	0.0064 U			0.006 U	0.0059 U			0.0063 U	0.0061 U		0.0057 U
1,3-Dichlorobenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,4-Dichlorobenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
1,2-Dichlorobenzene				0.0057 U		0.56 U	0.006 U	0.0029 J	0.0061 U	0.0034 J	0.0065 U												
1,2-Dibromo-3-Chloropropane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	22 U												
1,2,4-Trichlorobenzene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Xylene (Total)				0.017 U		0.56 U	0.018 U	0.018 U	0.018 U	0.018 U	0.0016 J												
Methyl Acetate				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Cyclohexane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
Methylcyclohexane				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0065 U												
M,P-Xylene				0.011 U		1.1 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U												
O-Xylene				0.0057 U		0.56 U	0.006 U	0.0061 U	0.0061 U	0.0061 U	0.0016 J												

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-2							EU-3				EU-4			EU-6		
	Residential	Industrial	FB-SS01 0608	FB-SS02 0608	FB-SS03 0608	FB-SS04 0608	FB-SS05 0608	FB-SS06 0608	FB-SS07 0608	FB-SS08 0608	FB-SS09 0608	FB-SS10 0608	FB-SS11 0608	FB-SS12 0608	FB-SS13 0608	FB-SS14 0608	FB-SS15 0608	FB-SS16 (1) 0608	FB-SS17 0608
SVOCs (units are in mg/kg)																			
Benzaldehyde																			
Phenols																			
Bis(2-Chloroethyl)Ether																			
2-Chlorophenol																			
2-Methylphenol																			
2,2'-Oxybis(1-Chloropropane)																			
Acetophenone																			
4-Methylphenol																			
N-Nitroso-Di-N-Propylamine																			
Hexachloroethane																			
Nitrobenzene																			
Isophorone																			
2-Nitrophenol																			
2,4-Dimethylphenol																			
Bis(2-Chloroethoxy)Methane																			
2,4-Dichlorophenol																			
Naphthalene																			
4-Chloroaniline																			
Hexachlorobutadiene			0.2 U	0.2 U	0.2 U	0.26 U	0.2 UJ	0.25 U	0.2 U	0.22 U	0.25	0.2 U	0.21 U	4.2	0.2 U	0.2 U	0.2 U	1.7	0.19 J
Caprolactam																			
4-Chloro-3-Methylphenol																			
2-Methylnaphthalene																			
Hexachlorocyclopentadiene																			
2,4,6-Trichlorophenol																			
2,4,5-Trichlorophenol																			
1,1'-Biphenyl																			
2-Chloronaphthalene																			
2-Nitroaniline																			
Dimethyl Phthalate																			
2,6-Dinitrotoluene																			
Acenaphthylene																			
3-Nitroaniline																			
Acenaphthene																			
2,4-Dinitrophenol																			
4-Nitrophenol																			
2,4-Dinitrotoluene																			
Dibenzofuran																			
Diethyl Phthalate																			
4-Chlorophenyl Phenyl Ether																			
Fluorene																			
4-Nitroaniline																			
4,6-Dinitro-2-Methylphenol																			
N-Nitrosodiphenylamine(1)																			
4-Bromophenyl Phenyl Ether																			
Hexachlorobenzene	30	200	0.2 U	0.2 U	0.2 U	0.85	0.2 UJ	0.25 U	0.2 U	0.61	0.95	0.22	0.21 U	21	0.2 U	0.2 U	0.2 U	3.2	1.5
Atrazine																			
Pentachlorophenol																			
Phenanthrene																			
Anthracene																			
Carbazole																			
Di-N-Butyl Phthalate																			
Fluoranthene																			
Pyrene																			
Butyl Benzyl Phthalate																			
3,3'-Dichlorobenzidine																			
Bis(2-Ethylhexyl)Phthalate																			
Benzo(A)Anthracene																			
Chrysene																			
Di-N-Octyl Phthalate																			
Benzo(B)Fluoranthene																			
Benzo(K)Fluoranthene																			
Benzo(A)Pyrene			0.2 U	0.2 U	0.2 U	0.36 U	0.2 UJ	0.25 U	0.2 U	0.22 U	0.2 U	0.2 U	0.21 U	0.71	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Indeno(1,2,3-Cd)Pyrene																			
Dibenzo(A,H)Anthracene																			
Benzo(G,H,I)Perylene																			

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-6																	
	Residential	Industrial	FB-SS18 0608	FB-SS20 (2) 0608	ML-SS01 0608-06	ML-SS01 0608-18	ML-SS02 0608-06	ML-SS02 0608-24	ML-SS03 0608-06	ML-SS03 0608-18	ML-SS04 0608-06	ML-SS04 0608-30	ML-SS05 0608-04	ML-SS05 0608-48	ML-SS06 0608-06	ML-SS06 0608-72	ML-SS07 0608-06	ML-SS07 0608-48
SVOCs (units are in mg/kg)																		
Benzaldehyde							0.25 U	0.22 U				0.22 U				0.21 U		
Phenols							0.25 U	0.22 U				0.22 U				0.21 U		
Bis(2-Chloroethyl)Ether							0.25 U	0.22 U				0.22 U				0.21 U		
2-Chlorophenol							0.25 U	0.22 U				0.22 U				0.21 U		
2-Methylphenol							0.25 U	0.22 U				0.22 U				0.21 U		
2,2'-Oxybis(1-Chloropropane)							0.25 U	0.22 U				0.22 U				0.21 U		
Acetophenone							0.25 U	0.22 U				0.22 U				0.21 U		
4-Methylphenol							0.48 U	0.42 U				0.42 U				0.41 U		
N-Nitroso-Di-N-Propylamine							0.25 U	0.22 U				0.22 U				0.21 U		
Hexachloroethane							0.25 U	0.22 U				0.22 U				0.21 U		
Nitrobenzene							0.25 U	0.22 U				0.22 U				0.21 U		
Isophorone							0.25 U	0.22 U				0.22 U				0.21 U		
2-Nitrophenol							0.25 U	0.22 U				0.22 U				0.21 U		
2,4-Dimethylphenol							0.25 U	0.22 U				0.22 U				0.21 U		
Bis(2-Chloroethoxy)Methane							0.25 U	0.22 U				0.22 U				0.21 U		
2,4-Dichlorophenol							0.25 U	0.22 U				0.22 U				0.21 U		
Naphthalene							0.25 U	0.22 U				0.22 U				0.21 U		
4-Chloroaniline							0.25 U	0.22 U				0.22 U				0.21 U		
Hexachlorobutadiene			0.2 U	0.24 U			0.23 J	0.32				2.4				2.6		
Caprolactam							0.25 U	0.22 U				0.22 U				0.21 U		
4-Chloro-3-Methylphenol							0.25 U	0.22 U				0.22 U				0.21 U		
2-Methylnaphthalene							0.25 U	0.22 U				0.22 U				0.21 U		
Hexachlorocyclopentadiene							0.25 U	0.22 U				0.22 U				0.21 U		
2,4,6-Trichlorophenol							0.25 U	0.22 U				0.22 U				0.21 U		
2,4,5-Trichlorophenol							0.25 U	0.22 U				0.22 U				0.21 U		
1,1'-Biphenyl							0.25 U	0.22 U				0.22 U				0.21 U		
2-Chloronaphthalene							0.25 U	0.22 U				0.22 U				0.21 U		
2-Nitroaniline							0.48 U	0.42 U				0.42 U				0.41 U		
Dimethyl Phthalate							0.25 U	0.22 U				0.22 U				0.21 U		
2,6-Dinitrotoluene							0.25 U	0.22 U				0.22 U				0.21 U		
Acenaphthylene							0.25 U	0.22 U				0.22 U				0.21 U		
3-Nitroaniline							0.48 U	0.42 U				0.42 U				0.41 U		
Acenaphthene							0.25 U	0.22 U				0.22 U				0.21 U		
2,4-Dinitrophenol							0.48 U	0.42 U				0.42 U				0.41 U		
4-Nitrophenol							0.48 U	0.42 U				0.42 U				0.41 U		
2,4-Dinitrotoluene							0.25 U	0.22 U				0.22 U				0.21 U		
Dibenzofuran							0.25 U	0.22 U				0.22 U				0.21 U		
Diethyl Phthalate							0.25 U	0.22 U				0.22 U				0.21 U		
4-Chlorophenyl Phenyl Ether							0.25 U	0.22 U				0.22 U				0.21 U		
Fluorene							0.25 U	0.22 U				0.22 U				0.21 U		
4-Nitroaniline							0.48 U	0.42 U				0.42 U				0.41 U		
4,6-Dinitro-2-Methylphenol							0.48 U	0.42 U				0.42 U				0.41 U		
N-Nitrosodiphenylamine(1)							0.25 U	0.22 U				0.22 U				0.21 U		
4-Bromophenyl Phenyl Ether							0.25 U	0.22 U				0.22 U				0.21 U		
Hexachlorobenzene	80	200	2.4	10			0.67	0.4				4.1				3.6		
Atrazine							0.25 U	0.22 U				0.22 U				0.21 U		
Pentachlorophenol							0.48 U	0.42 U				0.42 U				0.41 U		
Phenanthrene							0.27	0.16 J				0.21 J				0.21 U		
Anthracene							0.25 U	0.22 U				0.22 U				0.21 U		
Carbazole							0.25 U	0.22 U				0.22 U				0.21 U		
Di-N-Butyl Phthalate							0.25 U	0.22 U				0.22 U				0.21 U		
Fluoranthene							0.54	0.24 J				0.26				0.12 J		
Pyrene							0.49	0.25 J				0.29				0.21 U		
Butyl Benzyl Phthalate							0.25 U	0.22 U				0.22 U				0.21 U		
3,3'-Dichlorobenzidine							0.25 U	0.22 U				0.22 U				0.21 U		
Bis(2-Ethylhexyl)Phthalate							0.94 U	0.22 U				2.3 U				0.68		
Benzo(A)Anthracene							0.17 J	0.12 J				0.14 J				0.21 U		
Chrysene							0.29	0.18 J				0.21 J				0.096 J		
Di-N-Octyl Phthalate							0.25 U	0.22 U				0.22 U				0.21 U		
Benzo(B)Fluoranthene							0.25 U	0.22 U				0.22 U				0.21 U		
Benzo(K)Fluoranthene							0.2 J	0.1 J				0.11 J				0.21 U		
Benzo(A)Pyrene			0.2 U	0.24 U			0.16 J	0.1 J				0.11 J				0.21 U		
Indeno(1,2,3-Cd)Pyrene							0.25 U	0.22 U				0.22 U				0.21 U		
Dibenz(A,H)Anthracene							0.25 U	0.22 U				0.22 U				0.21 U		
Benzo(G,H,I)Perylene							0.25 U	0.22 U				0.22 U				0.21 U		

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-6																						
	Residential	Industrial	ML-SS08 0608-48	ML-SS09 0608-96	ML-SS10 0608-	ML-SS10 0608-96	ML-SS11 0608-72	ML-SS12 0608-96	ML-SS13 0608-120	ML-SS14 0608-120	ML-SS15 0608-120	MIC-SS08 060806	MIC-SS09 060806	MIC-SS10 060806	MIC-SS11 060806	MIC-SS12 060806	MIC-SS13 060806	MIC-SS14 060806	MIC-SS15 060806	MIC-SS16 060806	MIC-SS17 060806	MIC-SS18 060806	MIC-SS19 060806
SVOCs (units are in mg/kg)																							
Benzaldehyde				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Phenols				0.19 U		0.19 U	0.2 U	0.21 U	0.16 J	0.21 U	0.22 U												
Bis(2-Chloroethyl)Ether				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Chlorophenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Methylphenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,2'-Oxybis(1-Chloropropane)				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Acetophenone				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Methylphenol				0.38 U		0.37 U	0.21 J	0.18 J	0.4 U	0.4 U	0.43 U												
N-Nitroso-Di-N-Propylamine				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Hexachloroethane				1.4		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Nitrobenzene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Isophorone				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Nitrophenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,4-Dimethylphenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Bis(2-Chloroethoxy)Methane				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,4-Dichlorophenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Naphthalene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Chloroaniline				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Hexachlorobutadiene				0.7		0.19 U	0.2 U	1.4	0.18 J	1.4	2.5	0.43	0.22 U			0.2 U	0.63			0.22 U	0.21 U		0.2 U
Caprolactam				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Chloro-3-Methylphenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Methylnaphthalene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Hexachlorocyclopentadiene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,4,6-Trichlorophenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,4,5-Trichlorophenol				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,1-Biphenyl				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Chloronaphthalene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2-Nitroaniline				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
Dimethyl Phthalate				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,6-Dinitrotoluene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Acenaphthylene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
3-Nitroaniline				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
Acenaphthene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
2,4-Dinitrophenol				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
4-Nitrophenol				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
2,4-Dinitrotoluene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Dibenzofuran				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Diethyl Phthalate				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Chlorophenyl Phenyl Ether				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Fluorene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Nitroaniline				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
4,6-Dinitro-2-Methylphenol				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
N-Nitrosodiphenylamine(1)				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
4-Bromophenyl Phenyl Ether				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Hexachlorobenzene	30	200		0.32		0.19 U	0.25	1.4	1.2	2.3	0.22 U	1.6	0.22 U			0.56	0.68			0.37	0.43		0.2 U
Atrazine				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Pentachlorophenol				0.38 U		0.37 U	0.39 U	0.4 U	0.4 U	0.4 U	0.43 U												
Phenanthrene				0.19 U		0.19 U	0.2 U	0.099 J	0.21 U	0.21 U	0.22 U												
Anthracene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Carbazole				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Di-N-Butyl Phthalate				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Fluoranthene				0.19 U		0.19 U	0.2 U	0.098 J	0.21 U	0.11 J	0.22 U												
Pyrene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Butyl Benzyl Phthalate				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
3,3-Dichlorobenzidine				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Bis(2-Ethylhexyl)Phthalate				0.19 U		0.19 U	0.25	0.21	0.21 U	0.21 U	0.22 U												
Benzo(A)Anthracene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Chrysene				0.19 U		0.19 U	0.2 U	0.095 J	0.21 U	0.21 U	0.22 U												
Di-N-Octyl Phthalate				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Benzo(B)Fluoranthene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Benzo(K)Fluoranthene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Benzo(A)Pyrene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U	0.28	0.22 U			0.2 U	0.2 U			0.15 J	0.21 U		0.2 U
Indeno(1,2,3-Cd)Pyrene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Dibenzo(A,H)Anthracene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												
Benzo(G,H,I)Perylene				0.19 U		0.19 U	0.2 U	0.21 U	0.21 U	0.21 U	0.22 U												

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-2							EU-3				EU-4			EU-6		
	Residential	Industrial	FB-SS01 0608	FB-SS02 0608	FB-SS03 0608	FB-SS04 0608	FB-SS05 0608	FB-SS06 0608	FB-SS07 0608	FB-SS08 0608	FB-SS09 0608	FB-SS10 0608	FB-SS11 0608	FB-SS12 0608	FB-SS13 0608	FB-SS14 0608	FB-SS15 0608	FB-SS16 (1) 0608	FB-SS17 0608
PCBs (units are in mg/kg)																			
Aroclor-1016			0.03 U	0.03 U	0.03 U	0.18 U	0.03 UJ	0.04 U	0.03 U	0.03 U	0.14 U	0.14 U	0.03 U	3.90 U	0.03 U	0.03 U	0.03 U	1.40 U	0.29 U
Aroclor-1221			0.04 U	0.04 U	0.04 U	0.26 U	0.04 UJ	0.05 U	0.04 U	0.04 U	0.20 U	0.20 U	0.04 U	5.60 U	0.04 U	0.04 U	0.04 U	2.00 U	0.41 U
Aroclor-1232			0.02 U	0.02 U	0.02 U	0.13 U	0.02 UJ	0.03 U	0.02 U	0.02 U	0.10 U	0.10 U	0.02 U	2.80 U	0.02 U	0.02 U	0.02 U	1.00 U	0.20 U
Aroclor-1242			0.02 U	0.02 U	0.02 U	0.13 U	0.02 UJ	0.03 U	0.02 U	0.02 U	0.10 U	0.10 U	0.02 U	2.80 U	0.02 U	0.02 U	0.02 U	1.00 U	0.20 U
Aroclor-1248			0.02 UJ	0.02 UJ	0.04	0.81	0.04 UJ	0.03 U	0.02 U	0.33	0.89 J	1.20	0.03	36.00	0.30	0.08	0.02 U	10.00	2.50
Aroclor-1254			0.02 U	0.02 U	0.02 U	0.13 U	0.02 UJ	0.03 U	0.02 U	0.02 U	0.10 U	0.10 U	0.02 U	2.80 U	0.02 U	0.02 U	0.02 U	1.00 U	0.20 U
Aroclor-1260			0.02 U	0.02 U	0.02 U	0.13 U	0.02 UJ	0.03 U	0.02 U	0.02 J	0.10 U	0.10 U	0.02 U	2.80 U	0.02 J	0.02 U	0.02 U	1.00 U	0.20 U
Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	6	50	U	U	0.037	0.81	U	U	U	0.33	0.89 J	1.2	0.03	36	0.32	0.08	U	10	2.5
Metals (units are in mg/kg)																			
Silver																			
Aluminum																			
Barium																			
Beryllium			0.52 J	0.42 J	0.57 J	0.73 J	0.38 J	1	0.63	0.66	0.46 J	0.41 J	0.48 J	1	0.56 J	0.41 J	0.48 J	0.46 J	0.6
Calcium																			
Cadmium																			
Cobalt																			
Chromium																			
Copper																			
Iron																			
Potassium																			
Magnesium																			
Manganese																			
Sodium																			
Nickel																			
Thallium																			
Vanadium																			
Zinc																			
Lead																			
Selenium																			
Antimony																			
Arsenic			14.3 N	11.5 N	12.1 N	15.5 N	11.7	12.1	15.5 N	14.1 N	11.1 N	11.4 N	7.2 N	15 N	13.6 N	12.1 J	13.3 N	12 N	10 N
Mercury																			
RAD																			
Radium-226			0.595	1.13	0.977	1.22	1.05		1.25	1.04	0.896	1.04	0.204	2.33	1.02	1.12	1.18	1.23	0.793
Radium-228			1.17	1.15	0.953	1.17	1.17		1.17	1.57	1.12	1.14	1.24	1.68	1.2	1.12	1.18	1.31	1.36

Notes
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained from a reading less than the CRQL but greater than the IDL
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B - The reported value is less than the Contract Required Detection Limit but greater than the Instrument Detection Limit or Method Detection Limit
** = This flag is used for duplicate analysis when the sample and sample duplicate are not within control limits*
(1). Laboratory analyzed "FB-SS 16" as a sediment sample (minus any VOC's, SVOC's, metals) instead of a soil sample which has a very short list (3 VOC's, 4 SVOC's and 2 metals). Data entered in this table was limited to the short list compounds and metals
(2). There is no FB-SS19 sample the 2008 event due to the extensive soil sampling in EU-6
Residential - FB-SS01 thru FB-SS11
Data in bold indicate exceedances of CRGs.

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs		EU-4																													
	Residential	Industrial	FB-SS18 0608		FB-SS20 (2) 0608		ML-SS01 0608-06		ML-SS01 0608-18		ML-SS02 0608-06		ML-SS02 0608-24		ML-SS03 0608-06		ML-SS03 0608-18		ML-SS04 0608-06		ML-SS04 0608-30		ML-SS05 0608-06		ML-SS05 0608-48		ML-SS06 0608-46		ML-SS06 0608-72		ML-SS07 0608-06		ML-SS07 0608-48	
PCBs (units are in mg/kg)																																
Aroclor-1016			0.29	U	0.03	U	0.13	U	0.59	U	0.70	U	0.15	U	3.60	U	0.33	U	0.14	U	1.50	U	0.55	U	0.30	U	0.14	U	1.50	U	0.29	U	1.60	U
Aroclor-1221			0.41	U	0.05	U	0.18	U	0.84	U	0.99	U	0.22	U	5.10	U	0.47	U	0.20	U	2.20	U	0.78	U	0.43	U	0.20	U	2.10	U	0.41	U	2.20	U
Aroclor-1232			0.20	U	0.02	U	0.09	U	0.42	U	0.49	U	0.11	U	2.50	U	0.23	U	0.10	U	1.10	U	0.39	U	0.21	U	0.10	U	1.00	U	0.20	U	1.10	U
Aroclor-1242			0.20	U	0.02	U	0.09	U	0.42	U	0.49	U	0.11	U	2.50	U	0.23	U	0.10	U	1.10	U	0.39	U	0.21	U	0.10	U	1.00	U	0.20	U	1.10	U
Aroclor-1248			1.50		0.02	U	0.57		5.10	J	4.70		0.69		34.00		2.00		0.50		17.00		6.00	J	1.70		0.50		14.00		2.60		12.00	
Aroclor-1254			0.20	U	0.02	U	0.09	U	0.42	U	0.49	U	0.11	U	2.50	U	0.23	U	0.10	U	1.10	U	0.39	U	0.21	U	0.10	U	1.00	U	0.20	U	1.10	U
Aroclor-1260			0.20	U	0.02	U	0.09	U	0.42	U	0.49	U	0.11	U	2.50	U	0.23	U	0.10	U	0.86	J	0.30	J	0.21	U	0.10	U	1.00	U	0.20	U	1.10	U
Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	6	50	1.5			U	0.57		5.1	J	4.7		0.69		34		2.00		0.50		18		6.3	J	1.7		0.50		14		2.6		12	
Metals (units are in mg/kg)																																
Silver											0.26	J	0.07	J							0.32	J							0.59	U				
Aluminum											8320	*	8700	*							10300	*							13400					
Barium											92.7		693	J							339								146	*				
Beryllium			0.62		1.4						0.54	J	2.1								0.52	J							0.6					
Calcium											8340		7810								6450								16400					
Cadmium											0.72	U	0.62	U							0.21	J							0.59	U				
Cobalt											10.3		5.2								8.8								10.6					
Chromium											27.8	N*	14.5	N*							39.9	N*							19.4					
Copper											22.9	*	22.2	*							23.9	*							19.2	N				
Iron											21600		26500	J							31500								24500					
Potassium											846	E	598	JE							773	E							1560	E				
Magnesium											4690		1660								3080								8780					
Manganese											866		211								388								204					
Sodium											181	J	264	J							282	J							414	J				
Nickel											24.2		16.6								21.5								28.6	N*				
Thallium											1.4	UN	0.52	JN							1.3	UN							1.2	U				
Vanadium											38	N	28.7	N							69.2	N							37.3					
Zinc											92.1	NE	40.6	NE							77.6	NE							70.6	NE				
Lead											15.8	*E	12.7	*E							20.7	*E							14.2					
Selenium											0.88	N	2.1	N							1.3	N							0.59	U				
Antimony											0.51	JN	1.2	UN							1.3	UN							1.2	UN				
Arsenic			10.7	N	26.8	N					10	N*	36.7	N*							8.5	N*							9.3	N				
Mercury											2.2	N*	0.15	N*							1.5	N*							0.094	N				
RAD																																
Radium-226			1.21		1.49						0.905		1.55								1.45								1.25					
Radium-228			1.06		1.07						0.980		1.29								1.81								1.60					

Notes
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained from a reading less than the CRDL but greater than the IDL
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
E = The reported value is less than the Contract Required Detection Limit but greater than the Instrument Detection Limit or MD
** = This flag is used for duplicate analysis when the sample and sample duplicate are not within control limits*
(1). Laboratory analyzed "FB-SS 16" as a sediment sample (numerous VOC's, SVOCs, metals) instead of a soil sample which h
(2). There is no FB-SS19 sample the 2008 event due to the extensive soil sampling in EU-6
Residential: FB-SS01 thru FB-SS11
Data in bold indicate exceedances of CRGs.

Table A-1
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Soil Samples

List of Compounds	CRGs Residential	CRGs Industrial	EU-6 ML-SS08 0608-48	ML-SS09 0608-96	ML-SS10 0608-	ML-SS10 0608-96	ML-SS11 0608-72	ML-SS12 0608-96	ML-SS13 0608-120	ML-SS14 0608-120	ML-SS15 0608-120	MIC-SS08 060806	MIC-SS09 060805	MIC-SS10 060806	MIC-SS11 060806	MIC-SS12 060806	MIC-SS13 060806	MIC-SS14 060806	MIC-SS15 060806	MIC-SS16 060806	MIC-SS17 060806	MIC-SS18 060806	MIC-SS19 060806
PCBs *(units are in mg/kg)*																							
Aroclor-1016			0.03 U	0.03 U		0.13 U	0.03 U	0.59 U	1.50 U	0.29 U	0.03 U	17.00 U	0.15 U	0.15 U	0.03 U	0.29 U	0.56 U	0.15 U	0.30 U	0.61 U	0.29 U	0.03 U	0.03 U
Aroclor-1221			0.04 U	0.04 U		0.19 U	0.04 U	0.83 U	2.10 U	0.41 U	0.04 U	25.00 U	0.22 U	0.21 U	0.04 U	0.41 U	0.80 U	0.21 U	0.83 U	0.86 U	0.41 U	0.04 U	0.04 U
Aroclor-1232			0.02 U	0.02 U		0.10 U	0.02 U	0.41 U	1.00 U	0.21 U	0.02 U	12.00 U	0.11 U	0.10 U	0.02 U	0.20 U	0.40 U	0.10 U	0.41 U	0.43 U	0.21 U	0.02 U	0.02 U
Aroclor-1242			0.02 U	0.02 U		0.10 U	0.02 U	0.41 U	1.00 U	0.21 U	0.02 U	12.00 U	0.11 U	0.10 U	0.02 U	0.20 U	0.40 U	0.10 U	0.41 U	0.43 U	0.21 U	0.02 U	0.02 U
Aroclor-1248			0.09	0.02 U		0.50	0.25	5.20	6.80	2.50	0.02 U	50.00	0.60 J	1.10	0.29	1.40	4.60	1.50	2.80	6.16	1.70	0.31	0.11
Aroclor-1254			0.02 U	0.02 U		0.10 U	0.02 U	0.41 U	1.00 U	0.21 U	0.02 U	12.00 U	0.11 U	0.10 U	0.02 U	0.20 U	0.40 U	0.10 U	0.41 U	0.43 U	0.21 U	0.02 U	0.02 U
Aroclor-1260			0.02 U	0.02 U		0.10 U	0.02 U	0.41 U	1.00 U	0.21 U	0.02 U	12.00 U	0.11 U	0.10 U	0.02 U	0.20 U	0.40 U	0.10 U	0.41 U	0.43 U	0.21 U	0.02 U	0.02 U
Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	6	50	0.003 U			0.50	0.25	5.2	6.8	2.5	U	**50**	0.60 J	1.1	0.29	1.4	4.6	1.5	2.8	6.1	1.7	0.31	0.11
Metals *(units are in mg/kg)*																							
Silver				0.57 U		0.06 J	0.59 U	0.09 J	0.56 U	0.59 U	0.65 U												
Aluminum				13800		11000	13000	12500	12300	12700	14500												
Barium				75.1		46.3 *	62.1 *	157 *	71.9 *	128 *	92.4												
Beryllium				0.61		0.52 J	0.61	0.61	0.57	0.6	0.69	0.65 J*	0.73 *			0.63 *	0.52 J*			0.63 *	0.56 J*		0.49 J*
Calcium				14200		5980	2730	30900	20300	15800	10800 *												
Cadmium				0.57 U		0.55 U	0.56 U	0.61 U	0.56 U	0.59 U	0.65 U												
Cobalt				10.4		11.2	12.6	9.4	9.7	11.7	14.1												
Chromium				18.5		16.3	18.1	21	17.1	17.8	19.9												
Copper				28.1		27.2 N	29.8 N	19.8 N	20.7 N	22.4 N	27.4												
Iron				35300		29500	30000	22800	24400	28100	36900 *												
Potassium				2040		1690 E	1390 E	1960 E	1830 E	1880 E	2070												
Magnesium				5750		5110	4680	17100	13400	9180	7150												
Manganese				346		352	280	299	277	341	678 *												
Sodium				260 J		158 J	176 J	341 J	322 J	254 J	528 J												
Nickel				30.8		27.9 N*	32.9 N*	43.4 N*	33.9 N*	31.2 N*	32.2												
Thallium				1.1 U		1.1 U	1.2 U	0.68 J	0.8 J	0.64 J	1.8 N*												
Vanadium				18.6		14.7	20.3	45.8	44.2	28.6	21												
Zinc				75.4 E		69.7 NE	73.8 NE	62.6 NE	63 NE	80.2 NE	85.6 N*E												
Lead				14.5 E		13.6	15.8	15.5	13.3	13.8	16.1 E												
Selenium				0.86 N		0.55 U	0.59 U	0.61 U	0.56 U	0.59 U	0.65 U												
Antimony				1.1 UN		1.1 UN	0.47 JN	0.49 JN	1.1 UN	1.2 UN	1.3 UN												
Arsenic				16.5 N		13.8 N	12.8 N	10.1 N	10.6 N	12.4 N	15.3 N	12.2 *	18.5 *			15.6 *	12.7 *			15.2 *	11.5 *		11.7 *
Mercury				0.038 U		0.037 UN	0.04 UN	0.14 N	0.053 N	0.068 N	0.044 U												
RAD																							
Radium-226				0.841		0.989	1.04	1.08	1.10	0.87	1.04	1.28	1.5			1.42	1.25			1.43	1.14		0.98
Radium-228				1.33		1.51	1.13	0.975	1.32	1.25	1.59	1.12	1.68			1.13	1.53			1.83	1.66		1.06

Notes
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained from a reading less than the CRDL but greater than the IDL
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B - The reported value is less than the Contract Required Detection Limit but greater than the Instrument Detection Limit or MDL
** = This flag is used for duplicate analysis when the sample and sample duplicate are not within control limits*
(1). Laboratory analyzed "FB-SS 14" as a sediment sample (inorganic VOCs, SVOCs, metals) instead of a soil sample which is
(2). There is no FB-SS19 sample for 2008 event due to the extensive soil sampling in EU-6
Residential - FB-SS01 then FB-SS11
Data in bold indicate exceedances of CRGs.

Table A-2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

	EU-2		EU-3								EU-4							
List of Compounds	EU2 CRGs	FB-SD01 0608	EU3 CRGs	FB-SD02 0608	FB-SD03 0608	FB-SD04 0608	FB-SD45 0808	FB-SD46 0808	FB-SD47 0808	FB-SD48 0808	EU4 CRGs	FB-SD05 0608	FB-SD06 0608	FB-SD07 0608	FB-SD31 0808	FB-SD32 0808	FB-SD33 0808	Dup of FB-SD3 0808
VOCs (units are in mg/kg)																		
Dichlorodifluoromethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Chloromethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Vinyl Chloride		0.0067 U		0.0074 U	0.0059 J	0.0018 J						0.0081 U	0.0057 U	0.069 J				
Bromomethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Chloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Trichlorofluoromethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1-Dichloroethene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Carbon Disulfide		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1,2-Trichloro-1,2,2-Trifluoroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Acetone		0.017 U		0.018 U	0.016 U	0.018 U						0.015 J	0.014 U	0.18 J				
Methylene Chloride		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0013 J	0.32 U				
Trans-1,2-Dichloroethene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Methyl-T-Butyl Ether		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1-Dichloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Cis-1,2-Dichloroethene		0.0017 J		0.0022 J	0.0082	0.0074 U						0.0081 U	0.0057 U	0.34				
2-Butanone		0.017 U		0.018 U	0.016 U	0.018 U						0.02 U	0.014 U	0.81 U				
Chloroform		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1,1-Trichloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Carbon Tetrachloride		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Benzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,2-Dichloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Trichloroethene		0.0032 J		0.0042 J	0.0063 U	0.0074 U						0.0081 U	0.013	0.32 U				
1,2-Dichloropropane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Bromodichloromethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Cis-1,3-Dichloropropene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
4-Methyl-2-Pentanone		0.017 U		0.018 U	0.016 U	0.018 U						0.02 U	0.014 U	0.81 U				
Toluene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Trans-1,3-Dichloropropene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1,2-Trichloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Tetrachloroethene		0.0026 J		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0037 J	0.11 J				
2-Hexanone		0.017 U		0.018 U	0.016 U	0.018 U						0.02 U	0.014 U	0.81 U				
Dibromochloromethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,2-Dibromoethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Chlorobenzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Ethylbenzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Styrene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Bromoform		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Isopropylbenzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,1,2,2-Tetrachloroethane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0014 J	0.32 U				
1,3-Dichlorobenzene		0.0067 U		0.0074 U	0.0063 U	0.0022 J						0.028	0.0057 U	0.062 J				
1,4-Dichlorobenzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.006 J	0.0057 U	0.32 U				
1,2-Dichlorobenzene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.19 J				
1,2-Dibromo-3-Chloropropane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
1,2,4-Trichlorobenzene		0.0067 U		0.0048 J	0.0063 U	0.0074 U						0.0057 J	0.0057 U	0.23 J				
Xylene (Total)		0.02 U		0.022 U	0.019 U	0.022 U						0.024 U	0.017 U	0.32 U				
Methyl Acetate		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Cyclohexane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
Methylcyclohexane		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				
M,P-Xylene		0.014 U		0.015 U	0.013 U	0.015 U						0.016 U	0.011 U	0.65 U				
O-Xylene		0.0067 U		0.0074 U	0.0063 U	0.0074 U						0.0081 U	0.0057 U	0.32 U				

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

	EU-4												EU-5								
List of Compounds	FB-SD34 0808	FB-SD35 0808	FB-SD36 0808	FB-SD37 0808	FB-SD38 0808	FB-SD39 0808	FB-SD40 0808	FB-SD41 0808	FB-SD42 0808	FB-SD43 0808	FB-SD44 0808	EUS CRGs	DS-SD01 0808	DS-SD02 0808	DS-SD03 0808	DS-SD04 0808	DS-SD05 0808	DS-SD06 0808	DS-SD07 0808	DS-SD08 0808
VOCs (units are in mg/kg)																				
Dichlorodifluoromethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Chloromethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Vinyl Chloride													0.0076 U	0.0071 U	0.0079 U	0.016	0.0029 J	0.25	0.065	0.0028 J
Bromomethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Chloroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Trichlorofluoromethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,1-Dichloroethene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0056 J	0.0093 U	0.0085 U
Carbon Disulfide													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,1,2-Trichloro-1,2,2-Trifluoroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Acetone													0.025	0.018 U	0.015 J	0.039	0.018 U	0.017 U	0.036	0.019 J
Methylene Chloride													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Trans-1,2-Dichloroethene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.052	0.0019 J	0.0085 U
Methyl-T-Butyl Ether													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,1-Dichloroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Cis-1,2-Dichloroethene													0.0076 U	0.0071 U	0.0079 U	0.015	0.0051 J	1.1	0.051	0.0 J
2-Butanone													0.019 U	0.018 U	0.02 U	0.023 U	0.018 U	0.017 U	0.023 U	0.021 U
Chloroform													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.014	0.0093 U	0.0085 U
1,1,1-Trichloroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Carbon Tetrachloride													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Benzene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,2-Dichloroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Trichloroethene												1854	0.0076 U	0.0071 U	0.0079 U	0.084	0.0047 J	0.041	0.0096	0.0085 U
1,2-Dichloropropane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Bromodichloromethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Cis-1,3-Dichloropropene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
4-Methyl-2-Pentanone													0.019 U	0.018 U	0.02 U	0.023 U	0.018 U	0.017 U	0.023 U	0.021 U
Toluene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Trans-1,3-Dichloropropene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,1,2-Trichloroethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0056	0.0093 U	0.0085 U
Tetrachloroethene												392	0.0076 U	0.0071 U	0.0079 U	0.035	0.0024 J	0.11	0.0093 U	0.0085 U
2-Hexanone													0.019 U	0.018 U	0.02 U	0.023 U	0.018 U	0.017 U	0.023 U	0.021 U
Dibromochloromethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,2-Dibromoethane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Chlorobenzene													0.011	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Ethylbenzene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Styrene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Bromoform													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Isopropylbenzene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,1,2,2-Tetrachloroethane												102	0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.064	0.0093 U	0.0085 U
1,3-Dichlorobenzene													0.14 J	0.0071 U	0.018	0.0091 U	0.0072 U	0.0069 U	0.019	0.0025 J
1,4-Dichlorobenzene													0.0073 J	0.0071 U	0.0037 J	0.0091 U	0.0072 U	0.0069 U	0.0024 J	0.0085 U
1,2-Dichlorobenzene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0026 J	0.0 J	0.0085 U
1,2-Dibromo-3-Chloropropane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
1,2,4-Trichlorobenzene													0.0076 U	0.0071 U	0.0016 J	0.0027 J	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Xylene (Total)													0.023 U	0.021 U	0.024 U	0.027 U	0.022 U	0.021 U	0.028 U	0.025 U
Methyl Acetate													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Cyclohexane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
Methylcyclohexane													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U
M,P-Xylene													0.015 U	0.014 U	0.016 U	0.018 U	0.014 U	0.014 U	0.019 U	0.017 U
O-Xylene													0.0076 U	0.0071 U	0.0079 U	0.0091 U	0.0072 U	0.0069 U	0.0093 U	0.0085 U

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

List of Compounds	EU6 CRGs	FB-SD08 0608	FB-SD09 0608	FB-SD10 0608	FB-SD11 0608	FB-SD12 0608	FB-SD21 0808	FB-SD22 0808	FB-SD23 0808	FB-SD24 0808	FB-SD25 0808	FB-SD26 0808	FB-SD27 0808	FB-SD28 0808	FB-SD29 0808	FB-SD30 0808	ML-SD01 0608-02	ML-SD02 0608-02
		EU-6																
VOCs (units are in mg/kg)																		
Dichlorodifluoromethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Chloromethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Vinyl Chloride	10.8	0.097	0.0034 J	0.0031 J	0.004 J	0.032											0.052	0.0014 J
Bromomethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Chloroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Trichlorofluoromethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1-Dichloroethene		0.004 J	0.0072 U	0.0075 U	0.0082 U	0.0027 J											0.0023 J	0.0063 U
Carbon Disulfide		0.013	0.0072 U	0.0015 J	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Acetone		0.085	0.018 U	0.05	0.02 U	0.015 U											0.015 U	0.016 U
Methylene Chloride		0.0072 U	0.0072 U	0.0075 U		0.0062 U											0.006 U	0.0063 U
Trans-1,2-Dichloroethene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0025 J											0.0026 J	0.0063 U
Methyl-T-Butyl Ether		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1-Dichloroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Cis-1,2-Dichloroethene		0.27 J	0.08 J	0.003 J	0.0028 J	0.33											0.91	0.024
2-Butanone		0.018 U	0.018 U	0.019 U	0.02 U	0.015 U											0.015 U	0.016 U
Chloroform		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1,1-Trichloroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Carbon Tetrachloride		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Benzene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,2-Dichloroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Trichloroethene	1854	0.11	0.039 J	0.0075 U	0.0082 U	0.099											0.031	0.011
1,2-Dichloropropane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Bromodichloromethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Cis-1,3-Dichloropropene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
4-Methyl-2-Pentanone		0.018 U	0.018 U	0.019 U	0.02 U	0.015 U											0.015 U	0.016 U
Toluene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Trans-1,3-Dichloropropene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1,2-Trichloroethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0031 J											0.0023 J	0.0063 U
Tetrachloroethene	392	0.27	0.034 J	0.0075 U	0.0082 U	0.047											0.058	0.0052 J
2-Hexanone		0.018 U	0.018 U	0.019 U	0.02 U	0.015 U											0.015 U	0.016 U
Dibromochloromethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,2-Dibromoethane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Chlorobenzene		0.0088	0.0018 J	0.0075 U	0.0019 J	0.0062 U											0.0015 J	0.0063 U
Ethylbenzene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Styrene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Bromoform		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Isopropylbenzene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,1,2,2-Tetrachloroethane	102	0.0063 J	0.0026 J	0.0075 U	0.0082 U	0.0062 U											0.022	0.002 J
1,3-Dichlorobenzene		0.097	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,4-Dichlorobenzene		0.031	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,2-Dichlorobenzene		0.049	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
1,2-Dibromo-3-Chloropropane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.12											0.006 U	0.0063 U
1,2,4-Trichlorobenzene		0.11	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Xylene (Total)		0.022 U	0.022 U	0.022 U	0.025 U	0.019 U											0.018 U	0.019 U
Methyl Acetate		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Cyclohexane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
Methylcyclohexane		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U
M,P-Xylene		0.014 U	0.014 U	0.015 U	0.016 U	0.012 U											0.012 U	0.013 U
O-Xylene		0.0072 U	0.0072 U	0.0075 U	0.0082 U	0.0062 U											0.006 U	0.0063 U

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

		EU-6								
	List of Compounds	ML-SD03 0608-02	ML-SD04 0608-02	ML-SD05 0608-02	ML-SD06 0608-02	ML-SD07 0608-02	ML-SD08 0608-02	ML-SD09 0608-02	MLSD 10 0608-02	ML-SD11 0608-02
VOCs	(units are in mg/kg)									
	Dichlorodifluoromethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Chloromethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Vinyl Chloride	0.0063	0.0061 J		0.32 U	0.023				
	Bromomethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Chloroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Trichlorofluoromethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1-Dichloroethene	0.0062 U	0.0075 U		0.032 J	0.0023 J				
	Carbon Disulfide	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Acetone	0.011 J	0.013 J		0.21 J	0.017 U				
	Methylene Chloride	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Trans-1,2-Dichloroethene	0.0012 J	0.0016 J		0.32 U	0.0097				
	Methyl-T-Butyl Ether	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1-Dichloroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Cis-1,2-Dichloroethene	0.029	0.016		2.3	0.14				
	2-Butanone	0.015 U	0.019 U		0.79 U	0.017 U				
	Chloroform	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1,1-Trichloroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Carbon Tetrachloride	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Benzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,2-Dichloroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Trichloroethene	0.0034 J	0.0066 J		3.6	0.26				
	1,2-Dichloropropane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Bromodichloromethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Cis-1,3-Dichloropropene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	4-Methyl-2-Pentanone	0.015 U	0.019 U		0.79 U	0.017 U				
	Toluene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Trans-1,3-Dichloropropene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1,2-Trichloroethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Tetrachloroethene	0.0027 J	0.0075 U		1.8	0.19				
	2-Hexanone	0.015 U	0.019 U		0.79 U	0.017 U				
	Dibromochloromethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,2-Dibromoethane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Chlorobenzene	0.0062 U	0.0075 U		0.32 U	0.0017 J				
	Ethylbenzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Styrene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Bromoform	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Isopropylbenzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,1,2,2-Tetrachloroethane	0.0021 J	0.0075 U		0.32 U	0.0067 U				
	1,3-Dichlorobenzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,4-Dichlorobenzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,2-Dichlorobenzene	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	1,2-Dibromo-3-Chloropropane	0.0026 J	0.0075 U		0.32 U	0.0067 U				
	1,2,4-Trichlorobenzene	0.0062 U	0.002 J		0.32 U	0.0067 U				
	Xylene (Total)	0.019 U	0.022 U		0.32 U	0.02 U				
	Methyl Acetate	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Cyclohexane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	Methylcyclohexane	0.0062 U	0.0075 U		0.32 U	0.0067 U				
	M,P-Xylene	0.012 U	0.015 U		0.63 U	0.013 U				
	O-Xylene	0.0062 U	0.0075 U		0.32 U	0.0067 U				

Table A-2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

	EU-2		EU-3								EU-4							
List of Compounds	EU2 CRGs	FB-SD01 0608	EU3 CRGs	FB-SD02 0608	FB-SD03 0608	FB-SD04 0608	FB-SD45 0808	FB-SD46 0808	FB-SD47 0808	FB-SD48 0808	EU4 CRGs	FB-SD05 0608	FB-SD06 0608	FB-SD07 0608	FB-SD31 0808	FB-SD32 0808	FB-SD33 0808	Dup of FB-SD3 0808
SVOCs (units are in mg/kg)																		
Benzaldehyde		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Phenols		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Bis(2-Chloroethyl)Ether		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Chlorophenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Methylphenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,2'-Oxybis(1-Chloropropane)		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Acetophenone		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Methylphenol		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
N-Nitroso-Di-N-Propylamine		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Hexachloroethane		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Nitrobenzene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Isophorone		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Nitrophenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,4-Dimethylphenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Bis(2-Chloroethoxy)Methane		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,4-Dichlorophenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Naphthalene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Chloroaniline		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Hexachlorobutadiene		0.23 U		0.27	0.22 U	0.25 U						0.84	0.24	0.62				
Caprolactam		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Chloro-3-Methylphenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Methylnaphthalene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Hexachlorocyclopentadiene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,4,6-Trichlorophenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,4,5-Trichlorophenol		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
1,1'-Biphenyl		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Chloronaphthalene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2-Nitroaniline		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
Dimethyl Phthalate		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,6-Dinitrotoluene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Acenaphthylene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
3-Nitroaniline		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
Acenaphthene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
2,4-Dinitrophenol		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
4-Nitrophenol		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
2,4-Dinitrotoluene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Dibenzofuran		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Diethyl Phthalate		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Chlorophenyl Phenyl Ether		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Fluorene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Nitroaniline		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
4,6-Dinitro-2-Methylphenol		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
N-Nitrosodiphenylamine(1)		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
4-Bromophenyl Phenyl Ether		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Hexachlorobenzene		0.23 U	39	1.8	0.27	0.44					40	3.8	1.1	1.7				
Atrazine		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Pentachlorophenol		0.44 U		0.49 U	0.42 U	0.49 U						0.53 U	0.38 U	0.43 U				
Phenanthrene		0.23 U		0.25 U	0.22 U	0.25 U						0.21 J	0.2 U	0.22 U				
Anthracene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Carbazole		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Di-N-Butyl Phthalate		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Fluoranthene		0.23 U		0.21 J	0.2 J	0.18 J						0.4	0.2 U	0.14 J				
Pyrene		0.23 U		0.2 J	0.15 J	0.16 J						0.31	0.2 U	0.22 U				
Butyl Benzyl Phthalate		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
3,3'-Dichlorobenzidine		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Bis(2-Ethylhexyl)Phthalate		0.23 U		0.26	0.22 U	0.26						3	0.2 U	0.27				
Benzo(A)Anthracene		0.23 U		0.25 U	0.22 U	0.25 U						0.14 J	0.2 U	0.22 U				
Chrysene		0.23 U		0.16 J	0.11 J	0.11 J						0.21 J	0.2 U	0.22 U				
Di-N-Octyl Phthalate		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Benzo(B)Fluoranthene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Benzo(K)Fluoranthene		0.23 U		0.25 U	0.22 U	0.25 U						0.15 J	0.2 U	0.22 U				
Benzo(A)Pyrene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Indeno(1,2,3-Cd)Pyrene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Dibenzo(A,H)Anthracene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				
Benzo(G,H,I)Perylene		0.23 U		0.25 U	0.22 U	0.25 U						0.27 U	0.2 U	0.22 U				

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

	EU-4												EU-5																
List of Compounds	FB-SD34 0808	FB-SD35 0808	FB-SD36 0808	FB-SD37 0808	FB-SD38 0808	FB-SD39 0808	FB-SD40 0808	FB-SD41 0808	FB-SD42 0808	FB-SD43 0808	FB-SD44 0808	EU5 CRGs	DS-SD01 0808		DS-SD02 0808		DS-SD03 0808		DS-SD04 0808		DS-SD05 0808		DS-SD06 0808		DS-SD07 0808		DS-SD08 0808	
SVOCs (units are in mg/kg)																													
Benzaldehyde													0.036	J	0.24	U	0.036	J	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Phenols													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Bis(2-Chloroethyl)Ether													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2-Chlorophenol													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
2-Methylphenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,2'-Oxybis(1-Chloropropane)													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Acetophenone													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Methylphenol													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
N-Nitroso-Di-N-Propylamine													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Hexachloroethane													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Nitrobenzene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Isophorone													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2-Nitrophenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,4-Dimethylphenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Bis(2-Chloroethoxy)Methane													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29		2.2	
2,4-Dichlorophenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Naphthalene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Chloroaniline													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Hexachlorobutadiene													0.34		0.24	U	0.63		0.44		1		0.64		7.8		21	
Caprolactam													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Chloro-3-Methylphenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2-Methylnaphthalene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.27	J	0.28	U
Hexachlorocyclopentadiene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,4,6-Trichlorophenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,4,5-Trichlorophenol													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
1,1'-Biphenyl													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2-Chloronaphthalene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2-Nitroaniline													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
Dimethyl Phthalate													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,6-Dinitrotoluene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Acenaphthylene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
3-Nitroaniline													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
Acenaphthene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
2,4-Dinitrophenol													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
4-Nitrophenol													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
2,4-Dinitrotoluene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Dibenzofuran													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Diethyl Phthalate													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Chlorophenyl Phenyl Ether													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Fluorene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Nitroaniline													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
4,6-Dinitro-2-Methylphenol													0.52	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
N-Nitrosodiphenylamine(1)													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
4-Bromophenyl Phenyl Ether													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Hexachlorobenzene												39	3.9		0.27		5.7		4.7		18		1.3		6		11	
Atrazine													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Pentachlorophenol													0.27	U	0.47	U	0.48	U	0.67	U	0.46	U	0.44	U	0.56	U	0.55	U
Phenanthrene													0.13	J	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.1		0.15	J
Anthracene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Carbazole													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Di-N-Butyl Phthalate													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Fluoranthene													0.2	J	0.24	U	0.2	J	0.35	U	0.3		0.23	U	0.35		0.35	
Pyrene													0.22	J	0.24	U	0.2	J	0.14	J	0.29		0.23	U	0.47		0.36	
Butyl Benzyl Phthalate													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
3,3'-Dichlorobenzidine													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Bis(2-Ethylhexyl)Phthalate													0.51		0.24	U	0.25	U	0.17	J	0.24	U	0.23	U	0.51		1.2	
Benzo(A)Anthracene													0.11	J	0.24	U	0.11	J	0.35	U	0.17	J	0.23	U	0.17	J	0.18	J
Chrysene													0.16	J	0.24	U	0.14	J	0.35	U	0.2	J	0.23	U	0.24	J	0.23	J
Di-N-Octyl Phthalate													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Benzo(B)Fluoranthene													0.13	J	0.24	U	0.11	J	0.35	U	0.19	J	0.23	U	0.21	J	0.26	J
Benzo(K)Fluoranthene													0.27	U	0.24	U	0.25	U	0.35	U	0.17	J	0.23	U	0.18	J	0.23	J
Benzo(A)Pyrene													0.11	J	0.24	U	0.1	J	0.35	U	0.17	J	0.23	U	0.16	J	0.2	J
Indeno(1,2,3-Cd)Pyrene													0.27	U	0.24	U	0.25	U	0.35	U	0.12	J	0.23	U	0.15	J	0.2	J
Dibenzo(A,H)Anthracene													0.27	U	0.24	U	0.25	U	0.35	U	0.24	U	0.23	U	0.29	U	0.28	U
Benzo(G,H,I)Perylene													0.27	U	0.24	U	0.25	U	0.35	U	0.12	J	0.23	U	0.14	J	0.2	J

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

List of Compounds	EU6 CRGs	EU-6																
		FB-SD08 0608	FB-SD09 0608	FB-SD10 0608	FB-SD11 0608	FB-SD12 0608	FB-SD21 0808	FB-SD22 0808	FB-SD23 0808	FB-SD24 0808	FB-SD25 0808	FB-SD26 0808	FB-SD27 0808	FB-SD28 0808	FB-SD29 0808	FB-SD30 0808	ML-SD01 0608-02	ML-SD02 0608-02
SVOCs (units are in mg/kg)																		
Benzaldehyde		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Phenols		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Bis(2-Chloroethyl)Ether		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Chlorophenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Methylphenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,2'-Oxybis(1-Chloropropane)		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Acetophenone		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
4-Methylphenol		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
N-Nitroso-Di-N-Propylamine		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Hexachloroethane		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Nitrobenzene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Isophorone		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Nitrophenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,4-Dimethylphenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Bis(2-Chloroethoxy)Methane		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,4-Dichlorophenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Naphthalene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
4-Chloroaniline		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Hexachlorobutadiene		78	0.77	0.25 U	0.28 U	0.76											0.2 U	0.22 U
Caprolactam		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
4-Chloro-3-Methylphenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Methylnaphthalene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Hexachlorocyclopentadiene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,4,6-Trichlorophenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,4,5-Trichlorophenol		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
1,1'-Biphenyl		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Chloronaphthalene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2-Nitroaniline		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
Dimethyl Phthalate		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
2,6-Dinitrotoluene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Acenaphthylene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
3-Nitroaniline		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
Acenaphthene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.12 J	0.22 U
2,4-Dinitrophenol		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
4-Nitrophenol		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
2,4-Dinitrotoluene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Dibenzofuran		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.12 J	0.22 U
Diethyl Phthalate		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
4-Chlorophenyl Phenyl Ether		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Fluorene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.21	0.22 U
4-Nitroaniline		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
4,6-Dinitro-2-Methylphenol		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
N-Nitrosodiphenylamine(1)		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
4-Bromophenyl Phenyl Ether		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Hexachlorobenzene	45	53	2.2	0.58	0.76	0.83											0.36	0.5
Atrazine		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Pentachlorophenol		4.8 U	0.48 U	0.49 U	0.54 U	0.41 U											0.4 U	0.42 U
Phenanthrene		2.5 U	0.34	0.25 U	0.39	0.38											2.4	0.75
Anthracene		2.5 U	0.11 J	0.25 U	0.28 U	0.21 U											0.63	0.37
Carbazole		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.34	0.34
Di-N-Butyl Phthalate		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Fluoranthene		2.5 U	0.98	0.25 U	0.89	0.61											3.8	0.95
Pyrene		2.5 U	0.9	0.25 U	0.8	0.54											3.7	0.75
Butyl Benzyl Phthalate		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
3,3'-Dichlorobenzidine		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Bis(2-Ethylhexyl)Phthalate		2.5 U	0.85 J	0.25 U	0.68	0.25											0.2 U	0.39 U
Benzo(A)Anthracene		2.5 U	0.42	0.25 U	0.25 J	0.2 J											1.9	0.19 J
Chrysene		2.5 U	0.53	0.25 U	0.49	0.26											2.1	0.31
Di-N-Octyl Phthalate		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.2 U	0.22 U
Benzo(B)Fluoranthene		2.5 U	0.28	0.25 U	0.28	0.21 U											1.2	0.22 U
Benzo(K)Fluoranthene		2.5 U	0.39	0.25 U	0.37	0.17 J											1.4	0.16 J
Benzo(A)Pyrene		2.5 U	0.26	0.25 U	0.22 J	0.13 J											1.1	0.11 J
Indeno(1,2,3-Cd)Pyrene		2.5 U	0.16 J	0.25 U	0.18 J	0.21 U											0.65	0.22 U
Dibenzo(A,H)Anthracene		2.5 U	0.25 U	0.25 U	0.28 U	0.21 U											0.22	0.22 U
Benzo(G,H,I)Perylene		2.5 U	0.14 J	0.25 U	0.17 J	0.21 U											0.53	0.22 U

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

List of Compounds	EU-6																	
	ML-SD03 0608-02		ML-SD04 0608-02		ML-SD05 0608-02		ML-SD06 0608-02		ML-SD07 0608-02		ML-SD08 0608-02		ML-SD09 0608-02		MLSD 10 0608-02		ML-SD11 0608-02	
SVOCs (units are in mg/kg)																		
Benzaldehyde	0.21	U	0.25	U	0.2	U			0.21	U								
Phenols	0.21	U	0.25	U	0.2	U			0.21	U								
Bis(2-Chloroethyl)Ether	0.21	U	0.25	U	0.2	U			0.21	U								
2-Chlorophenol	0.21	U	0.25	U	0.2	U			0.21	U								
2-Methylphenol	0.21	U	0.25	U	0.2	U			0.21	U								
2,2'-Oxybis(1-Chloropropane)	0.21	U	0.25	U	0.2	U			0.21	U								
Acetophenone	0.21	U	0.25	U	0.2	U			0.21	U								
4-Methylphenol	0.41	U	0.49	U	0.4	U			0.4	U								
N-Nitroso-Di-N-Propylamine	0.21	U	0.25	U	0.2	U			0.21	U								
Hexachloroethane	0.21	U	0.25	U	0.2	U			0.21	U								
Nitrobenzene	0.21	U	0.25	U	0.2	U			0.21	U								
Isophorone	0.21	U	0.25	U	0.2	U			0.21	U								
2-Nitrophenol	0.21	U	0.25	U	0.2	U			0.21	U								
2,4-Dimethylphenol	0.21	U	0.25	U	0.2	U			0.21	U								
Bis(2-Chloroethoxy)Methane	0.21	U	0.25	U	0.2	U			0.21	U								
2,4-Dichlorophenol	0.21	U	0.25	U	0.2	U			0.21	U								
Naphthalene	0.21	U	0.25	U	0.2	U			0.21	U								
4-Chloroaniline	0.21	U	0.25	U	0.2	U			0.21	U								
Hexachlorobutadiene	0.21	U	0.4		0.2	U			0.21	U								
Caprolactam	0.21	U	0.25	U	0.2	U			0.21	U								
4-Chloro-3-Methylphenol	0.21	U	0.25	U	0.2	U			0.21	U								
2-Methylnaphthalene	0.21	U	0.25	U	0.2	U			0.21	U								
Hexachlorocyclopentadiene	0.21	U	0.25	U	0.2	U			0.21	U								
2,4,6-Trichlorophenol	0.21	U	0.25	U	0.2	U			0.21	U								
2,4,5-Trichlorophenol	0.21	U	0.25	U	0.2	U			0.21	U								
1,1'-Biphenyl	0.21	U	0.25	U	0.2	U			0.21	U								
2-Chloronaphthalene	0.21	U	0.25	U	0.2	U			0.21	U								
2-Nitroaniline	0.41	U	0.49	U	0.4	U			0.4	U								
Dimethyl Phthalate	0.21	U	0.25	U	0.2	U			0.21	U								
2,6-Dinitrotoluene	0.21	U	0.25	U	0.2	U			0.21	U								
Acenaphthylene	0.21	U	0.25	U	0.2	U			0.21	U								
3-Nitroaniline	0.41	U	0.49	U	0.4	U			0.4	U								
Acenaphthene	0.21	U	0.25	U	0.2	U			0.21	U								
2,4-Dinitrophenol	0.41	U	0.49	U	0.4	U			0.4	U								
4-Nitrophenol	0.41	U	0.49	U	0.4	U			0.4	U								
2,4-Dinitrotoluene	0.21	U	0.25	U	0.2	U			0.21	U								
Dibenzofuran	0.21	U	0.25	U	0.2	U			0.21	U								
Diethyl Phthalate	0.21	U	0.25	U	0.2	U			0.21	U								
4-Chlorophenyl Phenyl Ether	0.21	U	0.25	U	0.2	U			0.21	U								
Fluorene	0.21	U	0.25	U	0.2	U			0.21	U								
4-Nitroaniline	0.41	U	0.49	U	0.4	U			0.4	U								
4,6-Dinitro-2-Methylphenol	0.41	U	0.49	U	0.4	U			0.4	U								
N-Nitrosodiphenylamine(1)	0.21	U	0.25	U	0.2	U			0.21	U								
4-Bromophenyl Phenyl Ether	0.21	U	0.25	U	0.2	U			0.21	U								
Hexachlorobenzene	0.35		0.8		0.28				0.42									
Atrazine	0.21	U	0.25	U	0.2	U			0.21	U								
Pentachlorophenol	0.41	U	0.49	U	0.4	U			0.4	U								
Phenanthrene	0.2	J	0.41		0.19	J			0.14	J								
Anthracene	0.21	U	0.25	U	0.2	U			0.21	U								
Carbazole	0.21	U	0.25	U	0.2	U			0.21	U								
Di-N-Butyl Phthalate	0.21	U	0.25	U	0.2	U			0.21	U								
Fluoranthene	0.47	J	0.9		0.39				0.29									
Pyrene	0.5	J	0.81		0.36				0.33									
Butyl Benzyl Phthalate	0.21	U	0.25	U	0.2	U			0.21	U								
3,3'-Dichlorobenzidine	0.21	U	0.25	U	0.2	U			0.21	U								
Bis(2-Ethylhexyl)Phthalate	0.4	U	1.4	U	0.3	U			0.71									
Benzo(A)Anthracene	0.2	J	0.29		0.14	J			0.14	J								
Chrysene	0.28	J	0.49		0.21				0.17	J								
Di-N-Octyl Phthalate	0.21	U	0.25	U	0.2	U			0.21	U								
Benzo(B)Fluoranthene	0.21	U	0.3		0.2	U			0.21	U								
Benzo(K)Fluoranthene	0.19	J	0.37		0.12	J			0.1	J								
Benzo(A)Pyrene	0.15	J	0.24	J	0.11	J			0.21	U								
Indeno(1,2,3-Cd)Pyrene	0.21	U	0.17	J	0.2	U			0.21	U								
Dibenzo(A,H)Anthracene	0.21	U	0.25	U	0.2	U			0.21	U								
Benzo(G,H,I)Perylene	0.21	U	0.17	J	0.2	U			0.21	U								

Table A-2
Fields Brook-Millennium 2008 Sampling Event
Summary of Analytical Results for Sediment Samples

	EU-2		EU-3									EU-4							
List of Compounds	EU2 CRGs	FB-SD01 0608	EU3 CRGs	FB-SD02 0608	FB-SD03 0608	FB-SD04 0608	FB-SD45 0808	FB-SD46 0808	FB-SD47 0808	FB-SD48 0808	EU4 CRGs	FB-SD05 0608	FB-SD06 0608	FB-SD07 0608	FB-SD31 0808	FB-SD32 0808	FB-SD33 0808	Dup of FB-SD3 0808
PCBs (units are in mg/kg)		0										0	0	0				
Aroclor-1016		0.32 U		0.35 U	0.3 U	0.35 U	0.29 U	0.3 U	0.29 U	0.32 U		1.9 U	0.28 U	0.62 U	1.5 U	0.66 U	0.35 U	0.33 U
Aroclor-1221		0.45 U		0.5 U	0.43 U	0.5 U	0.41 U	0.43 U	0.41 U	0.45 U		2.7 U	0.39 U	0.88 U	2.1 U	0.93 U	0.49 U	0.47 U
Aroclor-1232		0.23 U		0.25 U	0.22 U	0.25 U	0.2 U	0.21 U	0.21 U	0.23 U		1.4 U	0.2 U	0.44 U	1 U	0.47 U	0.25 U	0.24 U
Aroclor-1242		0.23 U		0.25 U	0.22 U	0.25 U	0.2 U	0.21 U	0.21 U	0.23 U		1.4 U	0.2 U	0.44 U	1 U	0.47 U	0.25 U	0.24 U
Aroclor-1248		1.6		2.8	1.7	3.5	2	0.8	1.4	1.1		17	2.8	6	8.4	5.6	1.2 J	0.72 J
Aroclor-1254		0.23 U		0.25 U	0.22 U	0.25 U	0.2 U	0.21 U	0.21 U	0.23 U		1.4 U	0.2 U	0.44 U	1 U	0.47 U	0.25 U	0.24 U
Aroclor-1260		0.23 U		0.25 U	0.22 U	0.25 U	0.2 U	0.21 U	0.21 U	0.23 U		1.4 U	0.2 U	0.44 U	1 U	0.47 U	0.25 U	0.24 U
Total Aroclor [1016,1221,1232,1242,1248,1254,1260]		1.6	4.7	2.8	1.7	3.5	2	0.8	1.4	1.1	9.2	17	2.8	6	8.4	5.6	1.2 J	0.72
Metals (units are in mg/kg)																		
Silver		0.1 J		0.59 J	0.61 U	0.16 J						0.41 J	0.53 U	0.62 U				
Aluminum		9870		11800	9290	8220						10700	6560	7260				
Barium		109 *		806	78.7	214						810	94.6	218				
Beryllium		0.58 J		0.72 J	0.52 J	0.49 J						0.71 J	0.38 J	0.53 J				
Calcium		9580		5220 *J	15800 *	6580 *						7630 *	24800 *	4880 *				
Cadmium		0.62 U		0.73 U	0.61 U	0.67 U						1.7	0.53 U	0.62 U				
Cobalt		11.2		11.1	8.6	8.6						10.4	7.3	9.4				
Chromium		18.8		29	17	22.5						49.1	13.8	16.9				
Copper		18.9 N		26.7	23.1	26.1						34.4	17	18.9				
Iron		29800		29100 *	28100 *	20000 *						24800 *	19800 *	20800 *				
Potassium		1230 E		1920	1470	961						1170	664	766				
Magnesium		4790		5670	3740	3570						3870	3190	2990				
Manganese		792		395 *	388 *	548 *						661 *	544 *	434 *				
Sodium		188 J		1990 J	213 J	221 J						253 J	236 J	504 J				
Nickel		28 N*		34.8	24	24.4						32.7	19.2	30.9				
Thallium		1.2 U		1.5 UN	1.2 UN	1.3 UN*						1.5 UN	0.41 JN*	1.2 UN*				
Vanadium		23.1		31.3	18.7	32.8						78.1	21.6	26.4				
Zinc		91.3 NE		92.5 N*E	74.1 N*E	88.4 N*E						112 N*E	67 N*E	78.3 N*E				
Lead		16.7		19.9 E	15.7 E	14.9 E						24.3 E	9.2 E	12.4 E				
Selenium		0.62 U		0.73 U	0.61 U	0.67 U						0.77 U	0.53 U	0.62 U				
Antimony		1.2 UN		0.76 JN	0.8 JN	1.3 UN						1.5 UN	1.1 UN	0.52 JN				
Arsenic		14.5 N		12.1 N	12 N	8.7 N						10.9 N	7.7 N	9.7 N				
Mercury		0.058 N		0.46	0.086	0.48						1.1	0.12	0.16				
RAD																		
Radium-226		1.17		1.24	0.923	0.993						1.94	1.27	1.07				
Radium-228		1.10		1.32	0.911	1.00						1.99	1.24	0.957				

Notes:
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained from a reading less than the CRDL but greater than the IDL
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B - The reported value is less than the Contract Required Detection Limit but greater than the Instrument Detection Limit or Method Detection Limit.
** = This flag is used for duplicate analysis when the sample and sample duplicate are not within control limits*
Data in bold indicate exceedances of CRGs.

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

		EU-4											EU-5								
List of Compounds		FB-SD34 0808	FB-SD35 0808	FB-SD36 0808	FB-SD37 0808	FB-SD38 0808	FB-SD39 0808	FB-SD40 0808	FB-SD41 0808	FB-SD42 0808	FB-SD43 0808	FB-SD44 0808	EU5 CRGs	DS-SD01 0808	DS-SD02 0808	DS-SD03 0808	DS-SD04 0808	DS-SD05 0808	DS-SD06 0808	DS-SD07 0808	DS-SD08 0808
PCBs	**(units are in mg/kg)**																				
	Aroclor-1016	0.3 U	1.5 U	0.29 U	0.44 U	1.8 U	0.28 U	0.31 U	0.29 U	0.3 U	0.64 U	0.29 U		3.8 U	0.034 U	0.035 U	0.049 U	0.033 U	0.032 U	0.2 U	0.04 U
	Aroclor-1221	0.42 U	2.2 U	0.41 U	0.63 U	2.5 U	0.4 U	0.44 U	0.41 U	0.42 U	0.91 U	0.41 U		5.3 U	0.049 U	0.049 U	0.069 U	0.047 U	0.045 U	0.29 U	0.057 U
	Aroclor-1232	0.21 U	1.1 U	0.21 U	0.31 U	1.3 U	0.2 U	0.22 U	0.21 U	0.21 U	0.45 U	0.21 U		2.7 U	0.024 U	0.025 U	0.035 U	0.024 U	0.023 U	0.14 U	0.028 U
	Aroclor-1242	0.21 U	1.1 U	0.21 U	0.31 U	1.3 U	0.2 U	0.22 U	0.21 U	0.21 U	0.45 U	0.21 U		2.7 U	0.024 U	0.025 U	0.035 U	0.024 U	0.023 U	0.14 U	0.028 U
	Aroclor-1248	1.4	7.3	1.3	2.8	8.6	1.2	1.6	2.7	2.1	4.2	1.5		14	0.024 U	0.025 U	0.035 U	0.024 U	0.023 U	0.14 U	0.028 U
	Aroclor-1254	0.21 U	1.1 U	0.21 U	0.31 U	1.3 U	0.2 U	0.22 U	0.21 U	0.21 U	0.45 U	0.21 U		2.7 U	0.024 U	0.025 U	0.035 U	0.024 U	0.023 U	0.14 U	0.028 U
	Aroclor-1260	0.21 U	1.1 U	0.21 U	0.31 U	1.3 U	0.2 U	0.22 U	0.21 U	0.21 U	0.45 U	0.21 U		2.7 U	0.024 U	0.025 U	0.035 U	0.024 U	0.023 U	0.89	0.028 U
	Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	1.4	7.3	1.3	2.8	8.6	1.2	1.6	2.7	2.1	4.2	1.5	6.4	**14**	U	U	U	U	U	0.89	U
Metals	**(units are in mg/kg)**																				
	Silver																				
	Aluminum																				
	Barium																				
	Beryllium																				
	Calcium																				
	Cadmium																				
	Cobalt																				
	Chromium																				
	Copper																				
	Iron																				
	Potassium																				
	Magnesium																				
	Manganese																				
	Sodium																				
	Nickel																				
	Thallium																				
	Vanadium																				
	Zinc																				
	Lead																				
	Selenium																				
	Antimony																				
	Arsenic																				
	Mercury																				
RAD																					
	Radium-226																				
	Radium-228																				

Notes:
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained f.
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B = The reported value is less than the Contract Required Detection
** = This flag is used for duplicate analysis when the sample and sar*
Data in bold indicate exceedances of CRGs.

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

			EU-6																		
	List of Compounds	EU6 CRGs	FB-SD08 0608	FB-SD09 0608	FB-SD10 0608	FB-SD11 0608	FB-SD12 0608	FB-SD21 0808	FB-SD22 0808	FB-SD23 0808	FB-SD24 0808	FB-SD25 0808	FB-SD26 0808	FB-SD27 0808	FB-SD28 0808	FB-SD29 0808	FB-SD30 0808	ML-SD01 0608-02	ML-SD02 0608-02
PCBs	**(units are in ug/kg)**																		
	Aroclor-1016		17 U	1.7 U	0.18 U	0.79 U	0.3 U	0.33 U	1.60 U	0.29 U	1.70 U	0.58 U	1.50 U	0.58 U	1.60 U	0.29 U	2.10 U	0.29 U	0.3 U
	Aroclor-1221		25 U	2.5 U	0.25 U	1.1 U	0.42 U	0.47 U	2.30 U	0.41 U	2.40 U	0.82 U	2.10 U	0.82 U	2.30 U	0.40 U	3.00 U	0.41 U	0.43 U
	Aroclor-1232		12 U	1.2 U	0.13 U	0.56 U	0.21 U	0.24 U	1.10 U	0.20 U	1.20 U	0.41 U	1.10 U	0.41 U	1.20 U	0.20 U	1.50 U	0.2 U	0.22 U
	Aroclor-1242		12 U	1.2 U	0.13 U	0.56 U	0.21 U	0.24 U	1.10 U	0.20 U	1.20 U	0.41 U	1.10 U	0.41 U	1.20 U	0.20 U	1.50 U	0.2 U	0.22 U
	Aroclor-1248		130	17	1.6	8.5	2.2	2.70 J	16.00 J	1.80 J	6.40 J	4.30 J	4.90 J	4.80 J	9.20 J	2.80 J	12.00 J	2.1	3
	Aroclor-1254		12 U	1.2 U	0.13 U	0.56 U	0.21 U	0.24 U	1.10 U	0.20 U	1.20 U	0.41 U	1.10 U	0.41 U	1.20 U	0.20 U	1.50 U	0.2 U	0.22 U
	Aroclor-1260		12 U	1.2 U	0.13 U	0.56 U	0.21 U	0.24 U	0.81 J	0.20 U	1.20 U	0.41 U	1.10 U	0.41 U	1.20 U	0.20 U	1.50 U	0.2 U	0.22 U
	Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	7	**130**	17	1.6	**8.5**	2.2	2.7 J	**16.81** J	1.8 J	6.4 J	4.3	4.9 J	4.8 J	**9.2** J	2.8 J	**12** J	2.1	3
Metals	**(units are in mg/kg)**																		
	Silver		0.73 U	0.16 J	0.73 U	0.12 J	0.59 U												
	Aluminum		14900	9120	12000	10800	10100												
	Barium		109	564	108	151	119												
	Beryllium		0.68 J	0.54 J	0.53 J	0.66 J	0.56 J												
	Calcium		2190	11800	10800	14100	14100												
	Cadmium		0.73 U	0.17 J	0.73 U	0.17 J	0.59 U												
	Cobalt		12.4	10.8	8.9	12.3	9.4												
	Chromium		20.7	29.5	18.4	30.7	19.5												
	Copper		19.5	21.2	31.6	30.6	25.8												
	Iron		24900	22200	24400	24900	25300												
	Potassium		1490	1090	1280	1340	1110												
	Magnesium		3570	5370	6190	6680	5300												
	Manganese		316	715	697	728	617												
	Sodium		306 J	261 J	261 J	280 J	220 J												
	Nickel		25.2	26.9	25.8	30.3	26.7												
	Thallium		1.5 U	1.4 U	1.5 U	1.6 U	1.2 U												
	Vanadium		25.6	38.9	34.2	45.7	27.7												
	Zinc		102 E	88.5 E	90.6 E	124 E	82.7 E												
	Lead		17.6 E	17.7 E	15.2 E	22.6 E	17.1 E												
	Selenium		1 N	0.68 JN	0.73 UN	0.69 JN	0.59 UN												
	Antimony		1.5 UN	1.4 UN	1.5 UN	1.6 UN	1.2 UN												
	Arsenic		7.1 N	10.6 N	11.1 N	10.2 N	10.6 N												
	Mercury		0.19	1.1 J	0.37	3	0.35												
RAD																			
	Radium-226		1.46	1.05	1.22	1.04	0.878												
	Radium-228		1.22	1.18	1.27	0.84	1.07												

Notes:
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained J.
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B - The reported value is less than the Contract Required Detection
** = This flag is used for duplicate analysis when the sample and sa*
Data in bold indicate exceedances of CRGs.

Table A-2
Fields Brook-Millennium 2008 Sampling Eve
Summary of Analytical Results for Sediment

		EU-6																	
	List of Compounds	ML-SD03 0608-02		ML-SD04 0608-02		ML-SD05 0608-02		ML-SD06 0608-02		ML-SD07 0608-02		ML-SD08 0608-02		ML-SD09 0608-02		MLSD 10 0608-02		ML-SD11 0608-02	
PCBs	(units are in mg/kg)																		
	Aroclor-1016	0.3	U	0.72	U	0.29	U	0.61	U	0.29	U	0.56	U	0.24	U	0.61	U	0.31	U
	Aroclor-1221	0.42	U	1	U	0.41	U	0.86	U	0.41	U	0.8	U	0.35	U	0.86	U	0.44	U
	Aroclor-1232	0.21	U	0.51	U	0.2	U	0.43	U	0.21	U	0.4	U	0.17	U	0.43	U	0.22	U
	Aroclor-1242	0.21	U	0.51	U	0.2	U	0.43	U	0.21	U	0.4	U	0.17	U	0.43	U	0.22	U
	Aroclor-1248	2.4	J	6.9		1.5		3.6		1.7		4.5		2.3		3.9		2.3	
	Aroclor-1254	0.21	U	0.51	U	0.2	U	0.43	U	0.21	U	0.4	U	0.17	U	0.43	U	0.22	U
	Aroclor-1260	0.21	U	0.51	U	0.2	U	0.43	U	0.21	U	0.4	U	0.17	U	0.43	U	0.22	U
	Total Aroclor [1016,1221,1232,1242,1248,1254,1260]	2.4	J	6.9		1.5		3.6		1.7		4.5		2.3		3.9		2.3	
Metals	(units are in mg/kg)																		
	Silver	0.08	J	0.17	J	0.09	J	0.6	U			0.25	J	0.49	U				
	Aluminum	5610	*	7710	*	8660	*	7050				7850	*	5380					
	Barium	53		62.5		57.2		50.2	*			67.1		30	*				
	Beryllium	0.3	J	0.41	J	0.39	J	0.36	J			0.46	J	0.3	J				
	Calcium	16300		15100		25500		41900				22900	J	45800					
	Cadmium	0.59	U	0.71	U	0.6	U	0.6	U			0.58	U	0.49	U				
	Cobalt	6.9		9		8.1		6.4				8.5		4.7					
	Chromium	11.7	N*	18.8	N*	14	N*	25.2				38	N*	9.1					
	Copper	14.9	*	23.5	*	22	*	20.3	N			20.3	*	12.7	N				
	Iron	17700		21700		21100		20200				22800		15300					
	Potassium	646	E	839	E	790	E	891	E			787	E	660	E				
	Magnesium	3590		4460		4930		5850				4370		8530					
	Manganese	428		606		594		491				641		479					
	Sodium	225	J	266	J	250	J	229	J			204	J	173	J				
	Nickel	16.5		21.9		21.5		20.2	N*			21.7		33.5	N*				
	Thallium	1.2	UN	1.4	UN	1.2	UN	1.2	U			1.2	UN	0.99	U				
	Vanadium	16.3	N	26.2	N	20.8	N	21.7				29.8	N	11.4					
	Zinc	49.9	NE	97.8	NE	72.4	NE	64	NE			65.9	NE	43.5	NE				
	Lead	11.2	*E	16.4	*E	12.8	*E	11				16.8	*E	7.4					
	Selenium	0.62	N	0.63	JN	0.95	N	0.6	U			0.59	N	0.49	U				
	Antimony	1.2	UN	1.4	UN	1.2	UN	0.59	JN			1.2	UN	0.98	UN				
	Arsenic	8.8	N*	9.7	N*	9.2	N*	10.2	N			12.4	N*	6.2	N				
	Mercury	0.3	N*	0.5	N*	0.09	N*	0.069	N			0.92	N*	0.026	JN				
RAD																			
	Radium-226							0.799		0.929		0.783		0.699		0.846		0.768	
	Radium-228							0.948		1.00		0.791		0.996		0.708		0.781	

Notes:
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained f.
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
B - The reported value is less than the Contract Required Detection
** = This flag is used for duplicate analysis when the sample and sa.*
Data in bold indicate exceedances of CRGs.

Table A-3
Fields Brook 2008 Sampling Event
Summary of Analytical Results for Surface Water Samples

		EU-2		EU-3								EU-4				EU-6											
	List of Compounds	**FB-SW01 0608**		**FB-SW02 0608**		**DUP of SW02 0608**		**FB-SW03 0608**		**FB-SW04 0608**		**FB-SW05 0608**		**FB-SW06 0608**		**FB-SW07 0608**		**FB-SW08 0608**		**FB-SW09 0608**		**DUP of FB-SW09 0608**		**FB-SW10 0608**		**FB-SW11 0608**		**FB-SW12 0608**	
VOCs	(units are in ug/l)																										
	Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.12	J	0.5	U	0.5	U
	Vinylchloride	0.5	U	0.33	J	0.32	J	0.45	J	0.38	J	0.98		1.1		0.99		0.56		0.57		0.69		0.65		0.56		0.67	
	Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Trichlorofuoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Acetone	3.3	J	2.9	J	4.5	J	3.6	J	7.4		5.1		5.8		4.3	J	4.3	JB	4	JB	4.6	JB	4.5	JB	3.4	BJ	4.1	JB
	Carbon Disulfide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Methylacetate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Methylene Chloride	0.29	JB	0.28	JB	0.28	JB	0.28	JB	0.28	JB	0.28	JB	0.35	JB	0.35	JB	0.53	B	0.51	B	0.5	B	0.53	B	0.29	BJ	0.51	B
	Trans-1,2-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.16	J	0.15	J	0.15	J	0.12	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Methyl-T-Butylether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Cis-1,2-Dichloroethene	1.8		3		3.1		3.7		4.1		9.4		9.2		9.2		4.9		4.5		4.6		5.1		3.9		5.1	
	2-Butanone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Bromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Cyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.22	J	0.19	J	0.16	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.14	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Trichloroethene	1.3		2.5		2.3		2.8		3.8		7.3		6.9		7.3		5.2		4.9		4.8		5.2		4.8		4.6	
	Methylcyclohexane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	CIS-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	4-Methyl-2-Pentanone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Toluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1,2-Trichloroethane	0.5	U	0.17	J	0.14	J	0.12	J	0.5	U	0.24	J	0.41	J	0.3	J	0.16	J	0.17	J	0.18	J	0.5	U	0.11	J	0.16	J
	Tetrachloroethene	0.54		1.1		0.92		1.2		1.5		2.8		2.6		2.7		1.8		1.6		1.7		1.7		1.7		1.5	
	2-Hexanone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Chlorobenzene	0.41	J	0.31	J	0.26	J	0.3	J	0.27	J	21		20		6.8		0.79		0.92		0.96		0.98		1		0.99	
	Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Xylene (total)	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
	Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	Isopropylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,1,2,2-Tetrachloroethane	1		2.2		2.2		3		1.2		5.4		4.6		4.4		4.5		1		1		1.1		0.84		0.98	
	1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2-Dibromo-3-Chloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table A-3
Fields Brook 2008 Sampling Event
Summary of Analytical Results for Surface Water Samples

		EU-2	EU-3				EU-4			EU-6					
	List of Compounds	FB-SW01 0608	FB-SW02 0608	DUP of SW02 0608	FB-SW03 0608	FB-SW04 0608	FB-SW05 0608	FB-SW06 0608	FB-SW07 0608	FB-SW08 0608	FB-SW09 0608	DUP of FB-SW09 0608	FB-SW10 0608	FB-SW11 0608	FB-SW12 0608
SVOCs	(units are in ug/l)														
	Benzaldehyde	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Phenols	5 U	5 U	5 U	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Bis(2-Chloroethyl)Ether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Chlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,2'-Oxybis(1-Chloropropane)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Acetophenone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Methylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	N-Nitroso-Di-N-Propylamine	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Hexcachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Nitrobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Isophorone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Nitrophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4-Dimethylphenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Bis(2-chloroethoxy)methane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4-Dichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Naphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Chloroaniline	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Hexachlorobutadiene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Caprolactam	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Chloro-3-Methylphenol	5 U	5 U	5 U	3.7 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Methylnaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Hexachlorocyclopentadiene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4,6-Trichlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4,5-Trichlorophenol	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	1,1'-Biphenyl	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Chloronaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2-Nitroaniline	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	Dimethyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,6-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	3-Nitroaniline	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	Acenaphthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4-Dinitrophenol	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	4-Nitrophenol	20 U	20 U	20 U	5.4 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	Dibenzofuran	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	2,4-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Diethyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Fluorene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Chlorophenyl Phenyl Ether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Nitroaniline	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	4,6-Dinitro-2-Methylphenol	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
	N-Nitrosodiphenylamine(1)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	1,2,4,5 Tetrachlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	4-Bromophenyl Phenyl Ether	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Hexachlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Atrazine	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Pentachlorophenol	5 U	5 U	5 U	4.3 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Phenanthrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Di-N-Butyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table A-3
Fields Brook 2008 Sampling Event
Summary of Analytical Results for Surface Water Samples

		EU-2		EU-3					EU-4			EU-6					
	List of Compounds	FB-SW01 0608	FB-SW02 0608	DUP of SW02 0608	FB-SW03 0608	FB-SW04 0608	FB-SW05 0608	FB-SW06 0608	FB-SW07 0608	FB-SW08 0608	FB-SW09 0608	DUP of FB-SW09 0608	FB-SW10 0608	FB-SW11 0608	FB-SW12 0608
	Butyl Benzyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Benzo(a)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Chrysene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Bis(2-Ethylhexyl)Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Di-N-Octyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Benzo(b)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Benzo(k)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Benzo(a)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Dibenzo(a,h)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Benzo(g,h,i)perylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PCBs	**(units are in mg/kg)**														
	Aroclor-1016	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Aroclor-1221	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
	Aroclor-1232	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Aroclor-1242	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Aroclor-1248	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Aroclor-1254	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Aroclor-1260	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals	**(units are in mg/kg)**														
	Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Aluminum	185 J	105 J	97.7 J	479	2750	1120	641	473	322	204	234	306	263	177 J
	Barium	53.8 J	51 J	51.4 J	66.6 J	77.5 J	64.9 J	58.8 J	60.5 J	70.7 J	47.6 J	48.1 J	62.1 J	48.8 J	47.2 J
	Beryllium	5 U	5 U	5 U	5 U	0.18 J	5 U	0.13 J	5 U	5 U	5 U	0.12 J	5 U	0.17 J	5 U
	Calcium	58700	54800	55800	56600	59900	51500	60600	60900	52400	48700	49600	64400	50800	50500
	Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	Cobalt	50 U	50 U	50 U	50 U	1.2 J	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
	Chromium	0.67 J	10 U	10 U	0.76 J	5.7 J	2.6 J	1.2 J	0.93 J	10 U	10 U	10 U	10 U	10 U	10 U
	Copper	1.7 J	1.6 J	2 J	2.8 J	12.3 J	7 J	4.7 J	3.6 J	1.9 J	1.8 J	1.9 J	2.5 J	1.7 J	1.7 J
	Iron	416	326	337	1040	5490	2270	1260	1060	756	551	600	790	651	548
	Potassium	3460 J	2870 JE	2940 JE	3020 JE	3640 JE	3020 JE	3070 JE	3090 JE	2960 JE	2870 JE	2900 JE	3770 JE	2900 JE	2800 JE
	Magnesium	11500	11600	11700	11900	12000	9830	11400	11500	10300	9770	9950	12900	10200	10100
	Manganese	61.1	20.5	20.1	62.4	245	124	128	141	145	196	142	191	179	159
	Sodium	118000	115000	117000	117000	103000	74900	92300	102000	96800	90600	92300	120000	94200	92500
	Nickel	3.8 J	1.7 J	2.2 J	2.4 J	9.1 J	3 J	2.7 J	2.5 J	3.1 J	2.8 J	2.3 J	3.8 J	2.6 J	2.8 J
	Thallium	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	Vanadium	1.9 J	1 J	1.3 J	2.5 J	9.6 J	6.3 J	3.4 J	3.4 J	2.6 J	2.3 J	2.5 J	3.3 J	2.6 J	2.2 J
	Zinc	6 J	4.4 J	4.1 J	7.5 J	42.9 J	17.9 J	12.4 J	10.1 J	9.1 J	5.7 J	6.6 J	7.8 J	7.1 J	6.3 J
	Lead	10 U	10 U	10 U	10 U	10.6	3.2 J	3.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Selenium	35 U	35 U	35 U	4.8 J	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
	Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
	Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
*	Mercury	0.2 U	0.1 J	0.072 J	0.089 J	0.14 J	0.14 J	0.12 J	0.071 J	0.081 J	0.09 J	0.097 J	0.12 J	0.13 J	0.094 J
RAD															
	Radium-226	0.288 U	0.431 U	0.391 U	0.364	0.513	0.417 U	0.394 U	0.397	0.536 U	0.604	0.346	0.601	0.952 U	0.572 U
	Radium-228	1.59	1.03 U	0.826 U	1.26 U	1.00 U	0.829 U	0.967 U	1.42	1.03 U	1.26 U	0.966 U	1.08 U	0.432 U	1.34 U

Notes
U = Analyte was analyzed for but not detected
J = Analyte was analyzed for and the reported value was obtained from a reading less than the CRDL but greater than the IDL
E = Estimated Value
N = Indicated sample spike recovery was outside of control limits
** = This flag is used for duplicate analysis when the sample and sample duplicate are not within control limits*