

DATA REPORT

RCRA Facility Investigation Phase 1
Results Former GM Delco Plant 5,
Kokomo, Indiana

January 2006

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DATA REPORT

**Investigation in Off-Site
Area Southeast of GM
Powertrain – Allison
Transmission**

Data Report

ARCADIS performed the first phase of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at the Former General Motors (GM) Delco Plant 5 facility in Kokomo, Indiana. The first phase of the RFI fieldwork was conducted in September and October of 2005. Please find attached the data from the first phase of the RFI.

A second phase of the RFI is currently slated to begin January/February 2006. Proposed soil boring and monitoring well locations are presented on Drawing 1, and a Sampling and Analysis Matrix is provided as Appendix B.

Table 1-1: Soil Samples Exceeding Screening Criteria
Former Delco Plant 5, Kokomo, Indiana

On/Off-site	Area	Location	Sample ID	Top Depth (ft)	Bottom Depth (ft)	Sample Date	Chem Group	Chemical	CASRN	Conc (mg/kg)	Qual	Site Specific Background (mg/kg)	Residential Screening Criteria (mg/kg)	Ratio of Conc to Residential Screening Criteria	Industrial Screening Criteria (mg/kg)	Ratio of Conc to Industrial Screening Criteria	Industrial Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Conc to Industrial Volatilization to Indoor Air Criteria	Residential Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Conc to Residential Volatilization to Indoor Air Criteria	Migration to Groundwater MCL/Tap Water Criteria (mg/kg)	Ratio of Conc to Migration to Groundwater MCL/Tap Water Criteria	Deepest Soil Sample
On-Site	AOI 2	SB-2	S-031797-DS-04	8	10	03/17/97	INORG	Iron	7439-89-6	6.00E+04		2.3E+04	2.30E+04	1.6E+00	3.10E+05	1.2E-01					5.52E+03	6.6E+00	Yes
On-Site	AOI 5	GP-10	GP-10B	4	8	05/04/99	VOC	Trichloroethene	79-01-6	8.40E-01			2.30E+01	3.6E-02	6.10E+01	1.4E-02	8.49E+01	9.9E-03	3.92E+01	2.1E-02	2.00E+00	4.2E-01	Yes
On-Site	AOI 5	GP-6	GP-6B	4	8	05/04/99	VOC	Trichloroethene	79-01-6	1.00E-01			2.30E+01	4.3E-03	6.10E+01	1.6E-03	8.49E+01	1.2E-03	3.92E+01	2.6E-03	2.00E+00	5.0E-02	Yes
On-Site	AOI 5	P1	P1-10	10	10	05/22/01	VOC	Methylene Chloride	75-09-2	1.70E-01			9.10E+01	1.9E-03	2.10E+02	8.3E-04	6.30E+02	2.7E-04	2.91E+02	5.8E-04	2.00E+00	8.5E-02	Yes
On-Site	AOI 5	P1	P1-10	10	10	05/22/01	VOC	Trichloroethene	79-01-6	2.80E+00			2.30E+01	1.2E-01	6.10E+01	4.6E-02	8.49E+01	3.3E-02	3.92E+01	7.1E-02	2.00E+00	1.4E+00	Yes
On-Site	AOI 5	P4	P4-10-11	10	11	05/22/01	VOC	cis-1,2-Dichloroethene	156-59-2	5.00E-01			4.30E+01	1.2E-02	1.50E+02	3.4E-03	2.40E+02	2.1E-03	1.33E+02	3.8E-03	2.80E+01	1.8E-02	Yes
On-Site	AOI 5	P4	P4-10-11	10	11	05/22/01	VOC	Methylene Chloride	75-09-2	1.20E-01			9.10E+01	1.3E-03	2.10E+02	5.8E-04	6.30E+02	1.9E-04	2.91E+02	4.1E-04	2.00E+00	6.0E-02	Yes
On-Site	AOI 5	P4	P4-10-11	10	11	05/22/01	VOC	Trichloroethene	79-01-6	1.20E+02			2.30E+01	5.2E+00	6.10E+01	2.0E+00	8.49E+01	1.4E+00	3.92E+01	3.1E+00	2.00E+00	6.0E+01	Yes
On-Site	AOI 5	P7	P7-9-10	9	10	05/22/01	VOC	Methylene Chloride	75-09-2	1.10E-01			9.10E+01	1.2E-03	2.10E+02	5.4E-04	6.30E+02	1.7E-04	2.91E+02	3.8E-04	2.00E+00	5.5E-02	Yes
On-Site	AOI 5	P7	P7-9-10	9	10	05/22/01	VOC	Trichloroethene	79-01-6	6.90E+00			2.30E+01	3.0E-01	6.10E+01	1.1E-01	8.49E+01	8.1E-02	3.92E+01	1.8E-01	2.00E+00	3.5E+00	Yes
On-Site	AOI 5	P8	P8-10	10	10	05/22/01	VOC	cis-1,2-Dichloroethene	156-59-2	7.00E-01			4.30E+01	1.6E-02	1.50E+02	4.8E-03	2.40E+02	2.9E-03	1.33E+02	5.3E-03	2.80E+01	2.5E-02	Yes
On-Site	AOI 5	P8	P8-10	10	10	05/22/01	VOC	Methylene Chloride	75-09-2	1.20E-01			9.10E+01	1.3E-03	2.10E+02	5.8E-04	6.30E+02	1.9E-04	2.91E+02	4.1E-04	2.00E+00	6.0E-02	Yes
On-Site	AOI 5	P8	P8-10	10	10	05/22/01	VOC	Trichloroethene	79-01-6	8.30E+01			2.30E+01	3.6E+00	6.10E+01	1.4E+00	8.49E+01	9.8E-01	3.92E+01	2.1E+00	2.00E+00	4.2E+01	Yes
On-Site	AOI 5	P9	P9-9-10	9	10	05/22/01	VOC	Methylene Chloride	75-09-2	2.00E-01			9.10E+01	2.2E-03	2.10E+02	9.7E-04	6.30E+02	3.2E-04	2.91E+02	6.9E-04	2.00E+00	1.0E-01	Yes
On-Site	AOI 5	P9	P9-9-10	9	10	05/22/01	VOC	Trichloroethene	79-01-6	2.40E+00			2.30E+01	1.0E-01	6.10E+01	3.9E-02	8.49E+01	2.8E-02	3.92E+01	6.1E-02	2.00E+00	1.2E+00	Yes
On-Site	AOI 5	SB-0512	SB-0512(10-12)	10	12	09/19/05	VOC	cis-1,2-Dichloroethene	156-59-2	7.50E-01			4.30E+01	1.7E-02	1.50E+02	5.1E-03	2.40E+02	3.1E-03	1.33E+02	5.7E-03	2.80E+01	2.7E-02	Yes
On-Site	AOI 5	SB-0512	SB-0512(10-12)	10	12	09/19/05	VOC	Trichloroethene	79-01-6	2.90E+01			2.30E+01	1.3E+00	6.10E+01	4.7E-01	8.49E+01	3.4E-01	3.92E+01	7.4E-01	2.00E+00	1.5E+01	Yes
On-Site	AOI 5	SB-0512	SB-0512(10-12)	10	12	09/19/05	VOC	Vinyl Chloride	75-01-4	3.00E-02			7.90E-01	3.8E-02	7.50E+00	4.0E-03	3.51E+00	8.5E-03	1.62E+00	1.9E-02	8.00E-01	3.8E-02	Yes
On-Site	AOI 5	SB-0512	SB-0512(8-10)	8	10	09/19/05	VOC	Trichloroethene	79-01-6	3.90E+01			2.30E+01	1.7E+00	6.10E+01	6.4E-01	8.49E+01	4.6E-01	3.92E+01	1.0E+00	2.00E+00	2.0E+01	No
On-Site	AOI 5	SB-0513	SB-0513(8-10)	8	10	09/16/05	VOC	Methylene Chloride	75-09-2	1.70E-01			9.10E+01	1.9E-03	2.10E+02	8.3E-04	6.30E+02	2.7E-04	2.91E+02	5.8E-04	2.00E+00	8.5E-02	Yes
On-Site	AOI 5	SB-0513	SB-0513(8-10)	8	10	09/16/05	VOC	Trichloroethene	79-01-6	1.50E+02			2.30E+01	6.5E+00	6.10E+01	2.5E+00	8.49E+01	1.8E+00	3.92E+01	3.8E+00	2.00E+00	7.5E+01	Yes
On-Site	AOI 5	SB-0514	SB-0514(14-16)	14	16	09/16/05	VOC	cis-1,2-Dichloroethene	156-59-2	5.60E+00			4.30E+01	1.3E-01	1.50E+02	3.8E-02	2.40E+02	2.3E-02	1.33E+02	4.2E-02	2.80E+01	2.0E-01	Yes
On-Site	AOI 5	SB-0514	SB-0514(14-16)	14	16	09/16/05	VOC	Methylene Chloride	75-09-2	3.60E-01			9.10E+01	4.0E-03	2.10E+02	1.8E-03	6.30E+02	5.7E-04	2.91E+02	1.2E-03	2.00E+00	1.8E-01	Yes
On-Site	AOI 5	SB-0514	SB-0514(14-16)	14	16	09/16/05	VOC	Trichloroethene	79-01-6	7.80E+00			2.30E+01	3.4E-01	6.10E+01	1.3E-01	8.49E+01	9.2E-02	3.92E+01	2.0E-01	2.00E+00	3.9E+00	Yes
On-Site	AOI 5	SB-0514	SB-0514(8-10)	8	10	09/16/05	VOC	Trichloroethene	79-01-6	8.90E+01	J		2.30E+01	3.8E+00	6.10E+01	1.5E+00	8.49E+01	1.0E+00	3.92E+01	2.3E+00	2.00E+00	4.5E+01	No
On-Site	AOI 5	SB-0533	SB-0533(8-10)	8	10	09/20/05	VOC	cis-1,2-Dichloroethene	156-59-2	2.60E+00	J		4.30E+01	6.1E-02	1.50E+02	1.8E-02	2.40E+02	1.1E-02	1.33E+02	2.0E-02	2.80E+01	9.3E-02	Yes
On-Site	AOI 5	SB-0533	SB-0533(8-10)	8	10	09/20/05	VOC	Trichloroethene	79-01-6	2.60E+00	J		2.30E+01	1.1E-01	6.10E+01	4.3E-02	8.49E+01	3.1E-02	3.92E+01	6.6E-02	2.00E+00	1.3E+00	Yes
On-Site	AOI 5	SB-0533	SB-0533(8-10)	8	10	09/20/05	VOC	Vinyl Chloride	75-01-4	1.10E-02	J		7.90E-01	1.4E-02	7.50E+00	1.5E-03	3.51E+00	3.1E-03	1.62E+00	6.8E-03	8.00E-01	1.4E-02	Yes
On-Site	AOI 5	SB-9	S-031997-DS-23	14	16	03/19/97	PCB	PCBs (total)	1336-36-3	2.27E+00	J		1.10E+00	2.0E+00	7.40E+00	3.0E-01	1.09E+04	2.1E-04	5.01E+03	4.5E-04	4.90E+01	4.6E-02	Yes
On-Site	AOI 6	SB-0519	SB-0519(8-10)	8	10	09/21/05	VOC	Vinyl Chloride	75-01-4	2.80E-02			7.90E-01	3.5E-02	7.50E+00	3.8E-03	3.51E+00	8.0E-03	1.62E+00	1.7E-02	8.00E-01	3.5E-02	Yes
On-Site	AOI 6	SB-0520	FD-1(092105)		2	09/21/05	VOC	Tetrachloroethene	127-18-4	3.00E+01			4.80E+00	6.2E+00	1.30E+01	2.3E+00	2.62E+01	1.1E+00	1.21E+01	2.5E+00	2.00E+00	1.5E+01	No
On-Site	AOI 6	SB-0520	FD-1(092105)		2	09/21/05	VOC	Trichloroethene	79-01-6	3.80E+01			2.30E+01	1.6E+00	6.10E+01	6.2E-01	8.49E+01	4.5E-01	3.92E+01	9.7E-01	2.00E+00	1.9E+01	No
On-Site	AOI 6	SB-0520	SB-0520(0-2)		2	09/21/05	VOC	Tetrachloroethene	127-18-4	2.40E+01			4.80E+00	5.0E+00	1.30E+01	1.8E+00	2.62E+01	9.2E-01	1.21E+01	2.0E+00	2.00E+00	1.2E+01	No
On-Site	AOI 6	SB-0520	SB-0520(0-2)		2	09/21/05	VOC	Trichloroethene	79-01-6	3.90E+01			2.30E+01	1.7E+00	6.10E+01	6.4E-01	8.49E+01	4.6E-01	3.92E+01	1.0E+00	2.00E+00	2.0E+01	No
On-Site	AOI 6	SB-15	S-031997-DS-25	14	16	03/19/97	VOC	Vinyl Chloride	75-01-4	2.50E-02			7.90E-01	3.2E-02	7.50E+00	3.4E-03	3.51E+00	7.1E-03	1.62E+00	1.5E-02	8.00E-01	3.1E-02	Yes
On-Site	AOI 6	SB-18	S-031997-DS-28	4	6	03/19/97	VOC	Tetrachloroethene	127-18-4	1.90E+01			4.80E+00	3.9E+00	1.30E+01	1.5E+00	2.62E+01	7.2E-01	1.21E+01	1.6E+00	2.00E+00	9.5E+00	No
On-Site	AOI 6	SB-18	S-031997-DS-29	19	20	03/19/97	VOC	Tetrachloroethene	127-18-4	1.40E-01			4.80E+00	2.9E-02	1.30E+01	1.1E-02	2.62E+01	5.3E-03	1.21E+01	1.2E-02	2.00E+00	7.0E-02	Yes
On-Site	AOI 6	SB-19	S-031997-DS-26	2	4	03/19/97	PCB	PCBs (total)	1336-36-3	1.97E+00	J		1.10E+00	1.7E+00	7.40E+00	2.6E-01	1.09E+04	1.8E-04	5.01E+03	3.9E-04	4.90E+01	4.0E-02	No
On-Site	AOI 7	GP-17	GP-17B	4	8	05/05/99	VOC	Trichloroethene	79-01-6	9.40E-02			2.30E+01	4.1E-03	6.10E+01	1.5E-03	8.49E+01	1.1E-03	3.92E+01	2.4E-03	2.00E+00	4.7E-02	Yes
On-Site	AOI 7	SB-0521	SB-0521(14-16)	14	16	09/20/05	VOC	1,1-Dichloroethene	75-35-4	3.40E-01			1.20E+02	2.8E-03	4.10E+02	8.2E-04	2.82E+02	1.2E-03	1.56E+02	2.2E-03	2.80E+00	1.2E-01	Yes
On-Site	AOI 7	SB-0521	SB-0521(14-16)	14	16	09/20/05	VOC	cis-1,2-Dichloroethene	156-59-2	1.20E+00			4.30E+01	2.8E-02	1.50E+02	8.2E-03	2.40E+02	5.0E-03	1.33E+02	9.0E-03	2.80E+01	4.3E-02	Yes
On-Site	AOI 7	SB-0521	SB-0521(14-16)	14	16	09/20/05	VOC	1,1,1-Trichloroethane	71-55-6	7.20E+01			2.00E+03	3.6E-02	6.90E+03	1.0E-02	5.66E+03	1.3E-02	3.13E+03	2.3E-02	8.00E+01	9.0E-01	Yes
On-Site	AOI 7	SB-0521	SB-0521(14-16)	14	16	09/20/05	VOC	Trichloroethene	79-01-6	2.70E+02			2.30E+01	1.2E+01	6.10E+01	4.4E+00	8.49E+01	3.2E+00	3.92E+01	6.9E+00	2.00E+00	1.4E+02	Yes
On-Site	AOI 7	SB-0522	SB-0522(10-12)	10	12	09/20/05	VOC	Vinyl Chloride	75-01-4	2.10E-02			7.90E-01	2.7E-02	7.50E+00	2.8E-03	3.51E+00	6.0E-03	1.62E+00	1.3E-02	8.00E-01	2.6E-02	Yes
On-Site	AOI 7	SB-0525	SB-0525(8-10)	8	10	09/14/05	VOC	Trichloroethene	79-01-6	5.30E+01			2.30E+01	2.3E+00	6.10E+01	8.7E-01	8.49E+01	6.2E-01	3.92E+01	1.4E+00	2.00E+00	2.7E+01	No
On-Site	AOI 7	SB-0526	SB-0526(8-10)	8	10	09/13/05	VOC	Trichloroethene	79-01-6	8.30E+01			2.30E+01	3.6E+00	6.10E+01	1.4E+00	8.49E+01	9.8E-01	3.92E+01	2.1E+00	2.00E+00	4.2E+01	No
On-Site	AOI 7	SB-0528	SB-0528(10-12)	10	12	09/14/05	VOC	Trichloroethene	79-01-6	7.40E+00			2.30E+01	3.2E-01	6.10E+01	1.2E-01	8.49E+01	8.7E-02	3.92E+01	1.9E-01	2.00E+00	3.7E+00	Yes
On-Site	AOI 7	SB-0530	SB0530(19-21)	19	21	09/15/05	VOC	Methylene Chloride	75-09-2	3.90E-01			9.10E+01	4.3E-03	2.10E+02	1.9E-03	6.30E+02	6.2E-04	2.91E+02				

Table 1-2: Soil Screening Results
Former Delco Plant 5, Kokomo, Indiana

On/Off-Site	Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Screening Criteria (mg/kg)	Ratio of Max Detect to Residential Criteria	Industrial Screening Criteria (mg/kg)	Ratio of Max Detect to Industrial Criteria	Industrial Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Ind Volatilization to Indoor Air Criteria	Residential Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Res Volatilization to Indoor Air Criteria	Migration to Groundwater MCL/Tap Water (mg/kg)	Ratio of Max Detect to MTGW MCL/Tap Water
On-Site	AOI 2	VOC	Trichloroethene	79-01-6	C-B2	4	1	7.70E-03	7.70E-03		2.3E+01	3.3E-04	6.1E+01	1.3E-04	8.5E+01	9.1E-05	3.92E+01	2.0E-04	2.0E+00	3.9E-03
On-Site	AOI 2	VOC	Acetone	67-64-1	ID	4	2	9.00E-03	1.70E-02		1.4E+04	1.2E-06	5.4E+04	3.1E-07	1.7E+06	1.0E-08	9.15E+05	1.9E-08	1.3E+04	1.3E-06
On-Site	AOI 2	VOC	Methylene Chloride	75-09-2	B2	4	3	3.00E-03	6.20E-03		9.1E+01	6.8E-05	2.1E+02	3.0E-05	6.3E+02	9.8E-06	2.91E+02	2.1E-05	2.0E+00	3.1E-03
On-Site	AOI 2	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	2	1	2.70E-02	2.70E-02		3.5E+02	7.8E-05	1.2E+03	2.2E-05	1.7E+10	1.6E-12	5.61E+09	4.8E-12	3.6E+03	7.5E-06
On-Site	AOI 2	SVOC	Chrysene	218-01-9	B2	1	1	3.50E-02	3.50E-02		6.2E+02	5.6E-05	2.1E+03	1.7E-05	2.4E+07	1.4E-09	1.11E+07	3.1E-09		
On-Site	AOI 2	INORG	Nickel	7440-02-0	A	9	9	5.00E+00	4.70E+01	1.57E+01	1.6E+03	2.0E-02	2.0E+04	1.5E-03					9.5E+02	3.3E-02
On-Site	AOI 2	INORG	Potassium	7440-09-7		9	9	3.40E+02	1.90E+03											
On-Site	AOI 2	INORG	Selenium	7782-49-2	D	9	1	6.90E-01	6.90E-01		3.9E+02	1.8E-03	5.1E+03	1.4E-04					2.0E+01	3.5E-02
On-Site	AOI 2	INORG	Sodium	7440-23-5		9	9	5.00E+01	8.50E+02											
On-Site	AOI 2	INORG	Vanadium	7440-62-2		9	9	6.10E+00	6.70E+01	2.79E+01	7.8E+01	5.0E-01	1.0E+03	3.8E-02					7.3E+02	5.4E-02
On-Site	AOI 2	INORG	Zinc	7440-66-6	ID	9	9	1.10E+01	1.50E+02	1.90E+02	2.3E+04		3.1E+05						1.4E+04	
On-Site	AOI 2	INORG	Aluminum	7429-90-5	D	9	9	1.80E+03	2.00E+04	8.35E+03	7.6E+04	1.5E-01	9.2E+05	1.3E-02					1.1E+06	1.1E-02
On-Site	AOI 2	INORG	Arsenic	7440-38-2	A	9	9	2.00E+00	7.60E+00	7.86E+00	3.9E+00		1.6E+01						5.8E+00	
On-Site	AOI 2	INORG	Barium	7440-39-3	D	9	9	1.20E+01	1.20E+02	2.15E+02	5.4E+03		6.7E+04						1.6E+03	
On-Site	AOI 2	INORG	Beryllium	7440-41-7	B1	9	6	2.20E-01	7.50E-01	8.65E-01	1.5E+02		1.9E+03						6.3E+01	
On-Site	AOI 2	INORG	Cadmium	7440-43-9	B1	9	9	5.80E-02	6.40E-01		3.7E+01	1.7E-02	4.5E+02	1.4E-03					7.5E+00	8.5E-02
On-Site	AOI 2	INORG	Calcium	7440-70-2		9	9	3.40E+03	1.00E+05											
On-Site	AOI 2	INORG	Chromium (total)	7440-47-3		9	9	3.80E+00	2.10E+01	1.27E+01	2.2E+02	3.7E-02	2.5E+03	3.3E-03					4.0E+01	2.1E-01
On-Site	AOI 2	INORG	Cobalt	7440-48-4	B1	9	9	1.90E+00	1.90E+01	6.29E+00	1.4E+03	9.2E-03	1.3E+04	9.5E-04					6.6E+02	1.9E-02
On-Site	AOI 2	INORG	Copper	7440-50-8	D	9	9	8.20E+00	4.50E+01	2.46E+02	3.1E+03		4.1E+04						9.2E+02	
On-Site	AOI 2	INORG	Cyanide (total)	57-12-5	D	8	1	3.10E-01	3.10E-01		1.2E+03	2.5E-04	1.2E+04	2.5E-05					8.0E+01	3.9E-03
On-Site	AOI 2	INORG	Iron	7439-89-6	D	9	9	5.20E+03	6.00E+04	2.33E+04	2.3E+04	1.6E+00	3.1E+05	1.2E-01					5.5E+03	6.6E+00
On-Site	AOI 2	INORG	Lead	7439-92-1	B2	9	9	3.40E+00	3.00E+01	6.20E+02	4.0E+02		8.0E+02						2.7E+02	
On-Site	AOI 2	INORG	Magnesium	7439-95-4		9	9	3.20E+03	4.00E+04											
On-Site	AOI 2	INORG	Manganese	7439-96-5	D	9	9	1.60E+02	7.40E+02	4.90E+02	1.8E+03	1.4E-01	1.9E+04	1.3E-02					1.1E+03	2.2E-01
On-Site	AOI 5	VOC	Acetone	67-64-1	ID	15	2	2.40E-02	2.50E-02		1.4E+04	1.8E-06	5.4E+04	4.6E-07	1.7E+06	1.5E-08	9.15E+05	2.7E-08	1.3E+04	1.9E-06
On-Site	AOI 5	VOC	Chlorobenzene	108-90-7	D	22	1	3.60E-02	3.60E-02		1.5E+02	2.4E-04	5.3E+02	6.8E-05	9.9E+02	3.6E-05	5.47E+02	6.6E-05	4.0E+01	9.0E-04
On-Site	AOI 5	VOC	1,1-Dichloroethane	75-34-3	C	22	4	5.00E-03	1.90E+00		5.1E+02	3.8E-03	1.7E+03	1.1E-03	2.4E+03	7.8E-04	1.36E+03	1.4E-03	1.5E+03	1.3E-03
On-Site	AOI 5	VOC	1,1-Dichloroethene	75-35-4	C	22	5	1.30E-02	4.20E-02		1.2E+02	3.4E-04	4.1E+02	1.0E-04	2.8E+02	1.5E-04	1.56E+02	2.7E-04	2.8E+00	1.5E-02
On-Site	AOI 5	VOC	cis-1,2-Dichloroethene	156-59-2	D	20	11	5.70E-03	5.60E+00		4.3E+01	1.3E-01	1.5E+02	3.8E-02	2.4E+02	2.3E-02	1.33E+02	4.2E-02	2.8E+01	2.0E-01
On-Site	AOI 5	VOC	trans-1,2-Dichloroethene	156-60-5		20	3	2.10E-02	3.40E-02		6.9E+01	4.9E-04	2.3E+02	1.4E-04	2.0E+02	1.7E-04	1.12E+02	3.0E-04	4.0E+01	8.5E-04
On-Site	AOI 5	VOC	Methyl Acetate	79-20-9		10	1	2.40E-01	2.40E-01		2.2E+04	1.1E-05	9.2E+04	2.6E-06	8.1E+05	3.0E-07	4.47E+05	5.4E-07	1.5E+04	1.6E-05
On-Site	AOI 5	VOC	Methylene Chloride	75-09-2	B2	22	15	3.00E-03	3.60E-01		9.1E+01	4.0E-03	2.1E+02	1.8E-03	6.3E+02	5.7E-04	2.91E+02	1.2E-03	2.0E+00	1.8E-01
On-Site	AOI 5	VOC	Tetrachloroethene	127-18-4	C-B2	22	1	3.00E-03	3.00E-03		4.8E+00	6.2E-04	1.3E+01	2.3E-04	2.6E+01	1.1E-04	1.21E+01	2.5E-04	2.0E+00	1.5E-03
On-Site	AOI 5	VOC	Toluene	108-88-3	ID	22	2	2.70E-02	4.60E-02		6.6E+02	7.0E-05	2.2E+03	2.1E-05	3.3E+03	1.4E-05	1.82E+03	2.5E-05	4.0E+02	1.2E-04
On-Site	AOI 5	VOC	1,1,1-Trichloroethane	71-55-6	D	22	8	4.00E-03	1.40E-01		2.0E+03	7.1E-05	6.9E+03	2.0E-05	5.7E+03	2.5E-05	3.13E+03	4.5E-05	8.0E+01	1.8E-03
On-Site	AOI 5	VOC	Trichloroethene	79-01-6	C-B2	22	21	9.00E-03	1.50E+02		2.3E+01	6.5E+00	6.1E+01	2.5E+00	8.5E+01	1.8E+00	3.92E+01	3.8E+00	2.0E+00	7.5E+01
On-Site	AOI 5	VOC	Trichlorofluoromethane	75-69-4		20	1	2.70E-02	2.70E-02		3.9E+02	7.0E-05	1.3E+03	2.1E-05	4.6E+02	5.9E-05	2.55E+02	1.1E-04	4.4E+03	6.2E-06
On-Site	AOI 5	VOC	Vinyl Chloride	75-01-4	A	22	3	1.10E-02	3.50E-02		7.9E-01	4.4E-02	7.5E+00	4.7E-03	3.5E+00	1.0E-02	1.62E+00	2.2E-02	8.0E-01	4.4E-02
On-Site	AOI 5	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	7	3	2.90E-02	2.30E+00		3.5E+02	6.6E-03	1.2E+03	1.9E-03	1.7E+10	1.4E-10	5.61E+09	4.1E-10	3.6E+03	6.3E-04
On-Site	AOI 5	SVOC	Di-n-octylphthalate	117-84-0		7	1	2.40E-01	2.40E-01		2.4E+03	9.8E-05	2.5E+04	9.7E-06						
On-Site	AOI 5	PCB	PCBs (total)	1336-36-3	B2	12	5	7.05E-02	2.27E+00		1.1E+00	2.0E+00	7.4E+00	3.0E-01	1.1E+04	2.1E-04	5.01E+03	4.5E-04	4.9E+01	4.6E-02
On-Site	AOI 5	INORG	Aluminum	7429-90-5	D	5	5	3.90E+03	7.90E+03	8.35E+03	7.6E+04		9.2E+05						1.1E+06	
On-Site	AOI 5	INORG	Arsenic	7440-38-2	A	10	7	2.90E-01	9.00E+00	7.86E+00	3.9E+00	2.9E-01	1.6E+01	7.1E-02					5.8E+00	1.9E-01
On-Site	AOI 5	INORG	Barium	7440-39-3	D	10	10	3.30E+01	1.00E+02	2.15E+02	5.4E+03		6.7E+04						1.6E+03	
On-Site	AOI 5	INORG	Beryllium	7440-41-7	B1	5	3	3.20E-01	4.80E-01	8.65E-01	1.5E+02		1.9E+03						6.3E+01	
On-Site	AOI 5	INORG	Cadmium	7440-43-9	B1	10	5	9.20E-02	5.70E-01		3.7E+01	1.5E-02	4.5E+02	1.3E-03					7.5E+00	7.6E-02
On-Site	AOI 5	INORG	Calcium	7440-70-2		5	5	2.00E+04	1.00E+05											
On-Site	AOI 5	INORG	Chromium (total)	7440-47-3		10	10	4.37E+00	1.50E+01	1.27E+01	2.2E+02	1.0E-02	2.5E+03	9.1E-04					4.0E+01	5.8E-02
On-Site	AOI 5	INORG	Cobalt	7440-48-4	B1	5	5	3.70E+00	6.30E+00	6.29E+00	1.4E+03	6.3E-06	1.3E+04	6.5E-07					6.6E+02	1.3E-05
On-Site	AOI 5	INORG	Copper	7440-50-8	D	5	5	1.20E+01	2.50E+01	2.46E+02	3.1E+03		4.1E+04						9.2E+02	
On-Site	AOI 5	INORG	Cyanide (total)	57-12-5	D	6	1	2.30E-01	2.30E-01		1.2E+03	1.9E-04	1.2E+04	1.9E-05					8.0E+01	2.9E-03
On-Site	AOI 5	INORG	Iron	7439-89-6	D	5	5	1.00E+04	2.00E+04	2.33E+04	2.3E+04		3.1E+05						5.5E+03	
On-Site	AOI 5	INORG	Lead	7439-92-1	B2	10	10	2.70E+00	8.98E+01	6.20E+02	4.0E+02		8.0E+02						2.7E+02	
On-Site	AOI 5	INORG	Magnesium	7439-95-4		5	5	4.30E+03	2.00E+04											
On-Site	AOI 5	INORG	Manganese	7439-96-5	D	5	5	2.10E+02	3.40E+02	4.90E+02	1.8E+03		1.9E+04						1.1E+03	
On-Site	AOI 5	INORG	Nickel	7440-02-0	A	5	5	1.20E+01	1.60E+01	1.57E+01	1.6E+03	2.2E-04	2.0E+04	1.7E-05					9.5E+02	3.5E-04
On-Site	AOI 5	INORG	Potassium	7440-09-7		5	5	4.30E+02	1.00E+03											
On-Site	AOI 5	INORG	Sodium	7440-23-5		5	5	6.90E+01	2.10E+02											
On-Site	AOI 5	INORG	Vanadium	7440-62-2		5	5	1.10E+01	2.20E+01	2.79E+01	7.8E+01		1.0E+03						7.3E+02	
On-Site	AOI 5	INORG	Zinc	7440-66-6	ID	5	5	3.60E+01	7.60E+01	1.90E+02	2.3E+04		3.1E+05						1.4E+04	
On-Site	AOI 6	VOC	Acetone	67-64-1	ID	16	3	1.50E-02	7.10E-02		1.4E+04	5.0E-06	5.4E+04	1.3E-06	1.7E+06	4.2E-08	9.15E+05	7.8E-08	1.3E+04	5.4E-06
On-Site	AOI 6	VOC	Benzene	71-43-2	A	26	2	2.00E-03	4.80E-02		6.4E+00	7.5E-03	1.4E+01	3.4E-03	2.1E+01	2.3E-03	9.62E+00	5.0E-03	2.0E+00	2.4E-02

Table 1-2: Soil Screening Results
Former Delco Plant 5, Kokomo, Indiana

On/Off-Site	Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Screening Criteria (mg/kg)	Ratio of Max Detect to Residential Criteria	Industrial Screening Criteria (mg/kg)	Ratio of Max Detect to Industrial Criteria	Industrial Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Ind Volatilization to Indoor Air Criteria	Residential Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Res Volatilization to Indoor Air Criteria	Migration to Groundwater MCL/Tap Water (mg/kg)	Ratio of Max Detect to MTGW MCL/Tap Water
On-Site	AOI 6	VOC	2-Butanone	78-93-3	ID	25	2	2.10E-02	2.20E+00		2.2E+04	9.9E-05	1.1E+05	1.9E-05	1.9E+06	1.2E-06	1.04E+06	2.1E-06	8.8E+03	2.5E-04
On-Site	AOI 6	VOC	Chloroethane	75-00-3		26	4	2.00E-03	5.10E-01		3.0E+01	1.7E-02	6.5E+01	7.9E-03	2.9E+04	1.8E-05	1.56E+04	3.3E-05	5.8E+03	8.7E-05
On-Site	AOI 6	VOC	Chloromethane	74-87-3	D	26	1	2.00E-03	2.00E-03		4.7E+01	4.3E-05	1.6E+02	1.3E-05	3.0E+02	6.6E-06	1.68E+02	1.2E-05	3.8E+02	5.3E-06
On-Site	AOI 6	VOC	2-Chlorotoluene	95-49-8		5	1	7.70E-03	7.70E-03		1.6E+02	4.9E-05	5.6E+02	1.4E-05					2.9E+02	2.6E-05
On-Site	AOI 6	VOC	Cumene	98-82-8	D	16	1	6.30E-03	6.30E-03		5.7E+02	1.1E-05	2.0E+03	3.2E-06	1.4E+02	4.5E-05	7.73E+01	8.1E-05		
On-Site	AOI 6	VOC	Cyclohexane	110-82-7	ID	11	2	2.70E-02	2.80E-02		2.8E+03	9.9E-06	9.4E+03	3.0E-06	5.5E+03	5.1E-06	3.04E+03	9.2E-06		
On-Site	AOI 6	VOC	1,1-Dichloroethane	75-34-3	C	26	7	2.00E-03	1.30E+00		5.1E+02	2.6E-03	1.7E+03	7.5E-04	2.4E+03	5.3E-04	1.36E+03	9.6E-04	1.5E+03	8.9E-04
On-Site	AOI 6	VOC	1,1-Dichloroethene	75-35-4	C	26	2	7.00E-03	3.60E-01		1.2E+02	2.9E-03	4.1E+02	8.7E-04	2.8E+02	1.3E-03	1.56E+02	2.3E-03	2.8E+00	1.3E-01
On-Site	AOI 6	VOC	1,2-Dichloroethene (total)	540-59-0		10	7	1.00E-03	9.50E-01		4.3E+01	2.2E-02	1.5E+02	6.5E-03	1.1E+02	8.8E-03	5.96E+01	1.6E-02	1.5E+02	6.5E-03
On-Site	AOI 6	VOC	cis-1,2-Dichloroethene	156-59-2	D	16	8	5.70E-03	1.90E+00		4.3E+01	4.4E-02	1.5E+02	1.3E-02	2.4E+02	7.9E-03	1.33E+02	1.4E-02	2.8E+01	6.8E-02
On-Site	AOI 6	VOC	trans-1,2-Dichloroethene	156-60-5		16	3	8.40E-02	4.80E-01		6.9E+01	6.9E-03	2.3E+02	2.0E-03	2.0E+02	2.4E-03	1.12E+02	4.3E-03	4.0E+01	1.2E-02
On-Site	AOI 6	VOC	Ethyl Benzene	100-41-4	D	26	3	2.00E-03	5.90E-02		1.9E+03	3.2E-05	7.4E+03	8.0E-06	1.1E+04	5.3E-06	6.22E+03	9.5E-06	2.8E+02	2.1E-04
On-Site	AOI 6	VOC	4-Methyl-2-pentanone	108-10-1	ID	26	1	4.00E-03	4.00E-03		5.3E+03	7.6E-07	4.7E+04	8.5E-08	4.9E+05	8.2E-09	2.72E+05	1.5E-08	1.2E+03	3.4E-06
On-Site	AOI 6	VOC	Methylcyclohexane	108-87-2		11	2	1.00E-02	3.40E-02		2.6E+03	1.3E-05	8.7E+03	3.9E-06	1.1E+03	3.0E-05	6.34E+02	5.4E-05		
On-Site	AOI 6	VOC	Methylene Chloride	75-09-2	B2	26	11	2.00E-03	2.80E-01		9.1E+01	3.1E-03	2.1E+02	1.4E-03	6.3E+02	4.4E-04	2.91E+02	9.6E-04	2.0E+00	1.4E-01
On-Site	AOI 6	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	26	1	2.00E-03	2.00E-03		4.1E+00	4.9E-04	9.3E+00	2.2E-04	5.3E+01	3.8E-05	2.43E+01	8.2E-05	1.3E+00	1.5E-03
On-Site	AOI 6	VOC	Tetrachloroethene	127-18-4	C-B2	26	16	1.00E-03	3.00E+01		4.8E+00	6.2E+00	1.3E+01	2.3E+00	2.6E+01	1.1E+00	1.21E+01	2.5E+00	2.0E+00	1.5E+01
On-Site	AOI 6	VOC	Toluene	108-88-3	ID	26	5	3.00E-03	1.80E+00		6.6E+02	2.7E-03	2.2E+03	8.1E-04	3.3E+03	5.5E-04	1.82E+03	9.9E-04	4.0E+02	4.5E-03
On-Site	AOI 6	VOC	1,1,1-Trichloroethane	71-55-6	D	26	12	5.20E-03	6.20E-01		2.0E+03	3.1E-04	6.9E+03	8.9E-05	5.7E+03	1.1E-04	3.13E+03	2.0E-04	8.0E+01	7.8E-03
On-Site	AOI 6	VOC	Trichloroethene	79-01-6	C-B2	26	19	2.00E-03	3.90E+01		2.3E+01	1.7E+00	6.1E+01	6.4E-01	8.5E+01	4.6E-01	3.92E+01	1.0E+00	2.0E+00	2.0E+01
On-Site	AOI 6	VOC	Vinyl Chloride	75-01-4	A	26	11	1.00E-03	2.00E-01		7.9E-01	2.5E-01	7.5E+00	2.7E-02	3.5E+00	5.7E-02	1.62E+00	1.2E-01	8.0E-01	2.5E-01
On-Site	AOI 6	VOC	Xylenes (total)	1330-20-7	ID	26	4	4.00E-03	4.20E-01		2.7E+02	1.6E-03	9.0E+02	4.7E-04	1.4E+03	3.1E-04	7.52E+02	5.6E-04		
On-Site	AOI 6	SVOC	Acenaphthene	83-32-9		15	1	3.90E-02	3.90E-02		3.7E+03	1.1E-05	2.9E+04	1.3E-06	1.8E+06	2.2E-08	9.79E+05	4.0E-08		
On-Site	AOI 6	SVOC	Benzo(a)anthracene	56-55-3	B2	15	3	3.00E-02	2.00E-01		6.2E+00	3.2E-02	2.1E+01	9.5E-03	4.8E+06	4.1E-08	1.83E+06	1.1E-07		
On-Site	AOI 6	SVOC	Benzo(a)pyrene	50-32-8	B2	15	3	2.70E-02	2.80E-01		6.2E-01	4.5E-01	2.1E+00	1.3E-01	1.8E+06	1.6E-07	6.15E+05	4.6E-07		
On-Site	AOI 6	SVOC	Benzo(b)fluoranthene	205-99-2	B2	15	3	2.90E-02	2.80E-01		6.2E+00	4.5E-02	2.1E+01	1.3E-02	6.4E+05	4.4E-07	2.95E+05	9.5E-07		
On-Site	AOI 6	SVOC	Benzo(g,h,i)perylene	191-24-2	D	15	3	2.70E-02	2.20E-01		2.3E+03	9.5E-05	2.9E+04	7.6E-06	1.5E+11	1.4E-12	6.02E+10	3.7E-12		
On-Site	AOI 6	SVOC	Benzo(k)fluoranthene	207-08-9	B2	15	2	1.80E-01	3.80E-01		6.2E+01	6.1E-03	2.1E+02	1.8E-03	3.4E+08	1.1E-09	1.19E+08	3.2E-09		
On-Site	AOI 6	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	14	8	3.60E-02	5.20E+00		3.5E+02	1.5E-02	1.2E+03	4.2E-03	1.7E+10	3.1E-10	5.61E+09	9.3E-10	3.6E+03	1.4E-03
On-Site	AOI 6	SVOC	Butylbenzylphthalate	85-68-7	C	15	1	7.50E-02	7.50E-02		1.2E+04	6.1E-06	1.2E+05	6.1E-07	2.5E+08	3.0E-10	9.11E+07	8.2E-10		
On-Site	AOI 6	SVOC	Chrysene	218-01-9	B2	15	7	2.30E-02	3.70E-01		6.2E+02	6.0E-04	2.1E+03	1.8E-04	2.4E+07	1.5E-08	1.11E+07	3.3E-08		
On-Site	AOI 6	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	15	1	5.90E-02	5.90E-02		6.2E-01	9.5E-02	2.1E+00	2.8E-02	1.4E+07	4.1E-09	4.72E+06	1.3E-08	1.4E+01	4.2E-03
On-Site	AOI 6	SVOC	Dibenzofuran	132-64-9	D	15	2	7.30E-02	1.40E-01		1.5E+02	9.6E-04	1.6E+03	9.0E-05	2.1E+06	6.7E-08	1.14E+06	1.2E-07	3.3E+01	4.2E-03
On-Site	AOI 6	SVOC	Di-n-butylphthalate	84-74-2	D	15	2	1.20E-01	1.40E-01		6.1E+03	2.3E-05	6.2E+04	2.3E-06						
On-Site	AOI 6	SVOC	Di-n-octylphthalate	117-84-0		15	6	5.90E-02	2.70E+00		2.4E+03	1.1E-03	2.5E+04	1.1E-04						
On-Site	AOI 6	SVOC	Fluoranthene	206-44-0	D	14	2	1.50E-01	2.30E-01		2.3E+03	1.0E-04	2.2E+04	1.0E-05	1.7E+08	1.4E-09	9.32E+07	2.5E-09		
On-Site	AOI 6	SVOC	Fluorene	86-73-7	D	14	1	7.80E-02	7.80E-02		2.7E+03	2.8E-05	2.6E+04	3.0E-06	5.5E+06	1.4E-08	3.04E+06	2.6E-08		
On-Site	AOI 6	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	14	2	8.80E-02	1.60E-01		6.2E+00	2.6E-02	2.1E+01	7.6E-03	7.6E+07	2.1E-09	2.79E+07	5.7E-09		
On-Site	AOI 6	SVOC	Phenanthrene	85-01-8	D	14	3	3.40E-02	1.40E-01		2.3E+03	6.0E-05	2.9E+04	4.8E-06	2.0E+07	7.1E-09	1.09E+07	1.3E-08		
On-Site	AOI 6	SVOC	Phenol	108-95-2	ID	12	1	4.20E+00	4.20E+00		1.8E+04	2.3E-04	1.8E+05	2.3E-05					4.4E+03	9.6E-04
On-Site	AOI 6	SVOC	Pyrene	129-00-0	D	14	4	3.20E-02	3.10E-01		2.3E+03	1.3E-04	2.9E+04	1.1E-05	1.8E+08	1.7E-09	9.71E+07	3.2E-09		
On-Site	AOI 6	PDIST	Gasoline Range Organics	GRO		1	1	1.90E+00	1.90E+00											
On-Site	AOI 6	PDIST	Petroleum Hydrocarbons - Extended Range Organics	TPHERO		1	1	3.00E+03	3.00E+03											
On-Site	AOI 6	PCB	PCBs (total)	1336-36-3	B2	29	3	6.20E-02	1.97E+00		1.1E+00	1.7E+00	7.4E+00	2.6E-01	1.1E+04	1.8E-04	5.01E+03	3.9E-04	4.9E+01	4.0E-02
On-Site	AOI 6	INORG	Aluminum	7429-90-5	D	13	13	3.60E+02	1.23E+04	8.35E+03	7.6E+04	5.2E-02	9.2E+05	4.3E-03					1.1E+06	3.6E-03
On-Site	AOI 6	INORG	Arsenic	7440-38-2	A	18	14	1.40E+00	9.03E+00	7.86E+00	3.9E+00	3.0E-01	1.6E+01	7.3E-02					5.8E+00	2.0E-01
On-Site	AOI 6	INORG	Barium	7440-39-3	D	18	18	2.41E+01	1.06E+02	2.15E+02	5.4E+03		6.7E+04						1.6E+03	
On-Site	AOI 6	INORG	Beryllium	7440-41-7	B1	13	3	2.00E-01	8.53E-01	8.65E-01	1.5E+02		1.9E+03						6.3E+01	
On-Site	AOI 6	INORG	Cadmium	7440-43-9	B1	18	7	2.20E-01	1.30E+01		3.7E+01	3.5E-01	4.5E+02	2.9E-02					7.5E+00	1.7E+00
On-Site	AOI 6	INORG	Calcium	7440-70-2		7	7	7.00E+04	1.00E+05											
On-Site	AOI 6	INORG	Chromium (total)	7440-47-3		27	27	5.24E+00	5.91E+01	1.27E+01	2.2E+02	2.1E-01	2.5E+03	1.8E-02					4.0E+01	1.2E+00
On-Site	AOI 6	INORG	Cobalt	7440-48-4	B1	13	13	4.20E+00	7.19E+00	6.29E+00	1.4E+03	6.5E-04	1.3E+04	6.7E-05					6.6E+02	1.4E-03
On-Site	AOI 6	INORG	Copper	7440-50-8	D	13	13	1.30E+01	5.33E+01	2.46E+02	3.1E+03		4.1E+04						9.2E+02	
On-Site	AOI 6	INORG	Cyanide (total)	57-12-5	D	15	10	2.40E-01	5.50E+01		1.2E+03	4.5E-02	1.2E+04	4.5E-03					8.0E+01	6.9E-01
On-Site	AOI 6	INORG	Iron	7439-89-6	D	8	8	9.40E+03	2.72E+04	2.33E+04	2.3E+04	1.7E-01	3.1E+05	1.3E-02					5.5E+03	7.0E-01
On-Site	AOI 6	INORG	Lead	7439-92-1	B2	22	22	4.07E+00	6.71E+02	6.20E+02	4.0E+02	1.3E-01	8.0E+02	6.4E-02					2.7E+02	1.9E-01
On-Site	AOI 6	INORG	Magnesium	7439-95-4		7	7	2.00E+04	3.00E+04											
On-Site	AOI 6	INORG	Manganese	7439-96-5	D	13	13	1.97E+01	6.25E+02	4.90E+02	1.8E+03	7.7E-02	1.9E+04	6.9E-03					1.1E+03	1.2E-01
On-Site	AOI 6	INORG	Mercury	7439-97-6	D	18	1	3.10E-01	3.10E-01	9.42E-01	3.7E+00		1.4E+01		3.8E+03		2.11E+03		4.0E+01	
On-Site	AOI 6	INORG	Nickel	7440-02-0	A	13	13	1.20E+01	3.10E+01	1.57E+01	1.6E+03	9.8E-03	2.0E+04	7.5E-04					9.5E+02	1.6E-02
On-Site	AOI 6	INORG	Potassium	7440-09-7		7														

Table 1-2: Soil Screening Results Former Delco Plant 5, Kokomo, Indiana																				
On/Off-Site	Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Screening Criteria (mg/kg)	Ratio of Max Detect to Residential Criteria	Industrial Screening Criteria (mg/kg)	Ratio of Max Detect to Industrial Criteria	Industrial Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Ind Volatilization to Indoor Air Criteria	Residential Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Res Volatilization to Indoor Air Criteria	Migration to Groundwater MCL/Tap Water (mg/kg)	Ratio of Max Detect to MTGW MCL/Tap Water
On-Site	AOI 6	INORG	Vanadium	7440-62-2		13	13	9.80E+00	3.17E+01	2.79E+01	7.8E+01	4.8E-02	1.0E+03	3.7E-03					7.3E+02	5.2E-03
On-Site	AOI 6	INORG	Zinc	7440-66-6	ID	13	13	3.20E+01	1.29E+02	1.90E+02	2.3E+04		3.1E+05						1.4E+04	
On-Site	AOI 7	VOC	Acetone	67-64-1	ID	20	1	4.70E-03	4.70E-03		1.4E+04	3.3E-07	5.4E+04	8.7E-08	1.7E+06	2.8E-09	9.15E+05	5.1E-09	1.3E+04	3.6E-07
On-Site	AOI 7	VOC	Chloroethane	75-00-3		41	1	1.10E-02	1.10E-02		3.0E+01	3.6E-04	6.5E+01	1.7E-04	2.9E+04	3.8E-07	1.56E+04	7.0E-07	5.8E+03	1.9E-06
On-Site	AOI 7	VOC	Chloroform	67-66-3	B2	41	5	1.10E-03	5.50E-03		2.2E+00	2.5E-03	4.7E+00	1.2E-03	9.5E+00	5.8E-04	4.38E+00	1.3E-03	4.0E+01	1.4E-04
On-Site	AOI 7	VOC	Cumene	98-82-8	D	41	2	1.40E-03	2.00E-03		5.7E+02	3.5E-06	2.0E+03	1.0E-06	1.4E+02	1.4E-05	7.73E+01	2.6E-05		
On-Site	AOI 7	VOC	1,1-Dichloroethane	75-34-3	C	41	2	6.80E-02	5.60E+00		5.1E+02	1.1E-02	1.7E+03	3.2E-03	2.4E+03	2.3E-03	1.36E+03	4.1E-03	1.5E+03	3.8E-03
On-Site	AOI 7	VOC	1,1-Dichloroethene	75-35-4	C	41	3	3.60E-02	3.40E-01		1.2E+02	2.8E-03	4.1E+02	8.2E-04	2.8E+02	1.2E-03	1.56E+02	2.2E-03	2.8E+00	1.2E-01
On-Site	AOI 7	VOC	cis-1,2-Dichloroethene	156-59-2	D	41	13	2.90E-03	4.10E+01		4.3E+01	9.5E-01	1.5E+02	2.8E-01	2.4E+02	1.7E-01	1.33E+02	3.1E-01	2.8E+01	1.5E+00
On-Site	AOI 7	VOC	trans-1,2-Dichloroethene	156-60-5		41	5	3.20E-03	1.50E-01		6.9E+01	2.2E-03	2.3E+02	6.4E-04	2.0E+02	7.4E-04	1.12E+02	1.3E-03	4.0E+01	3.8E-03
On-Site	AOI 7	VOC	Ethyl Benzene	100-41-4	D	41	3	2.20E-03	2.30E-02		1.9E+03	1.2E-05	7.4E+03	3.1E-06	1.1E+04	2.0E-06	6.22E+03	3.7E-06	2.8E+02	8.2E-05
On-Site	AOI 7	VOC	Methylcyclohexane	108-87-2		39	2	1.70E-03	2.50E-03		2.6E+03	9.6E-07	8.7E+03	2.9E-07	1.1E+03	2.2E-06	6.34E+02	3.9E-06		
On-Site	AOI 7	VOC	Methylene Chloride	75-09-2	B2	41	1	3.90E-01	3.90E-01		9.1E+01	4.3E-03	2.1E+02	1.9E-03	6.3E+02	6.2E-04	2.91E+02	1.3E-03	2.0E+00	2.0E-01
On-Site	AOI 7	VOC	Tetrachloroethene	127-18-4	C-B2	41	2	3.70E-03	2.50E-02		4.8E+00	5.2E-03	1.3E+01	1.9E-03	2.6E+01	9.5E-04	1.21E+01	2.1E-03	2.0E+00	1.3E-02
On-Site	AOI 7	VOC	Toluene	108-88-3	ID	41	6	2.10E-03	2.50E+00		6.6E+02	3.8E-03	2.2E+03	1.1E-03	3.3E+03	7.6E-04	1.82E+03	1.4E-03	4.0E+02	6.3E-03
On-Site	AOI 7	VOC	1,1,1-Trichloroethane	71-55-6	D	41	6	1.50E-03	7.20E+01		2.0E+03	3.6E-02	6.9E+03	1.0E-02	5.7E+03	1.3E-02	3.13E+03	2.3E-02	8.0E+01	9.0E-01
On-Site	AOI 7	VOC	Trichloroethene	79-01-6	C-B2	41	17	2.60E-02	2.70E+02		2.3E+01	1.2E+01	6.1E+01	4.4E+00	8.5E+01	3.2E+00	3.92E+01	6.9E+00	2.0E+00	1.4E+02
On-Site	AOI 7	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		39	3	2.50E-03	2.90E-02		2.1E+04	1.4E-06	6.9E+04	4.2E-07	1.2E+04	2.4E-06	6.77E+03	4.3E-06		
On-Site	AOI 7	VOC	Vinyl Chloride	75-01-4	A	41	5	4.90E-03	6.60E-01		7.9E-01	8.3E-01	7.5E+00	8.8E-02	3.5E+00	1.9E-01	1.62E+00	4.1E-01	8.0E-01	8.3E-01
On-Site	AOI 7	VOC	Xylenes (total)	1330-20-7	ID	41	4	3.60E-03	6.90E-02		2.7E+02	2.5E-04	9.0E+02	7.7E-05	1.4E+03	5.1E-05	7.52E+02	9.2E-05		
On-Site	AOI 7	PDIST	Gasoline Range Organics	GRO		1	1	2.60E+00	2.60E+00											
On-Site	AOI 7	PDIST	Petroleum Hydrocarbons - Extended Range Organics	TPHERO		1	1	1.20E+02	1.20E+02											
On-Site	AOI 7	INORG	Aluminum	7429-90-5	D	1	1	6.26E+03	6.26E+03	8.35E+03	7.6E+04		9.2E+05						1.1E+06	
On-Site	AOI 7	INORG	Arsenic	7440-38-2	A	1	1	7.40E+00	7.40E+00	7.86E+00	3.9E+00		1.6E+01						5.8E+00	
On-Site	AOI 7	INORG	Barium	7440-39-3	D	1	1	7.49E+01	7.49E+01	2.15E+02	5.4E+03		6.7E+04						1.6E+03	
On-Site	AOI 7	INORG	Chromium (total)	7440-47-3		1	1	1.05E+01	1.05E+01	1.27E+01	2.2E+02		2.5E+03						4.0E+01	
On-Site	AOI 7	INORG	Cobalt	7440-48-4	B1	1	1	5.70E+00	5.70E+00	6.29E+00	1.4E+03		1.3E+04						6.6E+02	
On-Site	AOI 7	INORG	Copper	7440-50-8	D	1	1	1.42E+01	1.42E+01	2.46E+02	3.1E+03		4.1E+04						9.2E+02	
On-Site	AOI 7	INORG	Iron	7439-89-6	D	1	1	1.34E+04	1.34E+04	2.33E+04	2.3E+04		3.1E+05						5.5E+03	
On-Site	AOI 7	INORG	Lead	7439-92-1	B2	4	4	4.29E+00	1.05E+01	6.20E+02	4.0E+02		8.0E+02						2.7E+02	
On-Site	AOI 7	INORG	Manganese	7439-96-5	D	1	1	3.28E+02	3.28E+02	4.90E+02	1.8E+03		1.9E+04						1.1E+03	
On-Site	AOI 7	INORG	Nickel	7440-02-0	A	1	1	1.54E+01	1.54E+01	1.57E+01	1.6E+03		2.0E+04						9.5E+02	
On-Site	AOI 7	INORG	Vanadium	7440-62-2		1	1	1.82E+01	1.82E+01	2.79E+01	7.8E+01		1.0E+03						7.3E+02	
On-Site	AOI 7	INORG	Zinc	7440-66-6	ID	1	1	3.61E+01	3.61E+01	1.90E+02	2.3E+04		3.1E+05						1.4E+04	
On-Site	Misc/Perimeter	VOC	Acetone	67-64-1	ID	14	2	1.10E-02	1.50E-02		1.4E+04	1.1E-06	5.4E+04	2.8E-07	1.7E+06	9.0E-09	9.15E+05	1.6E-08	1.3E+04	1.1E-06
On-Site	Misc/Perimeter	VOC	Benzene	71-43-2	A	14	1	1.60E+00	1.60E+00		6.4E+00	2.5E-01	1.4E+01	1.1E-01	2.1E+01	7.7E-02	9.62E+00	1.7E-01	2.0E+00	8.0E-01
On-Site	Misc/Perimeter	VOC	Carbon Tetrachloride	56-23-5	B2	14	1	2.70E+00	2.70E+00		2.2E+00	1.2E+00	5.5E+00	4.9E-01	3.6E+00	7.5E-01	1.66E+00	1.6E+00	2.0E+00	1.4E+00
On-Site	Misc/Perimeter	VOC	Chloroform	67-66-3	B2	14	2	5.00E-03	3.40E-01		2.2E+00	1.5E-01	4.7E+00	7.2E-02	9.5E+00	3.6E-02	4.38E+00	7.8E-02	4.0E+01	8.5E-03
On-Site	Misc/Perimeter	VOC	1,2-Dichloroethene (total)	540-59-0		6	1	2.50E-01	2.50E-01		4.3E+01	5.8E-03	1.5E+02	1.7E-03	1.1E+02	2.3E-03	5.96E+01	4.2E-03	1.5E+02	1.7E-03
On-Site	Misc/Perimeter	VOC	Methylene Chloride	75-09-2	B2	14	9	3.00E-03	1.50E+00		9.1E+01	1.6E-02	2.1E+02	7.3E-03	6.3E+02	2.4E-03	2.91E+02	5.2E-03	2.0E+00	7.5E-01
On-Site	Misc/Perimeter	VOC	Tetrachloroethene	127-18-4	C-B2	14	1	1.00E-03	1.00E-03		4.8E+00	2.1E-04	1.3E+01	7.6E-05	2.6E+01	3.8E-05	1.21E+01	8.3E-05	2.0E+00	5.0E-04
On-Site	Misc/Perimeter	VOC	1,1,1-Trichloroethane	71-55-6	D	14	2	8.00E-03	1.20E-02		2.0E+03	6.1E-06	6.9E+03	1.7E-06	5.7E+03	2.1E-06	3.13E+03	3.8E-06	8.0E+01	1.5E-04
On-Site	Misc/Perimeter	VOC	Trichloroethene	79-01-6	C-B2	14	7	2.00E-03	3.40E+01		2.3E+01	1.5E+00	6.1E+01	5.6E-01	8.5E+01	4.0E-01	3.92E+01	8.7E-01	2.0E+00	1.7E+01
On-Site	Misc/Perimeter	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	6	5	3.10E-02	6.60E-02		3.5E+02	1.9E-04	1.2E+03	5.4E-05	1.7E+10	3.9E-12	5.61E+09	1.2E-11	3.6E+03	1.8E-05
On-Site	Misc/Perimeter	SVOC	Di-n-octylphthalate	117-84-0		5	3	3.10E-02	5.90E-02		2.4E+03	2.4E-05	2.5E+04	2.4E-06						
On-Site	Misc/Perimeter	SVOC	Fluoranthene	206-44-0	D	6	1	2.60E-02	2.60E-02		2.3E+03	1.1E-05	2.2E+04	1.2E-06	1.7E+08	1.5E-10	9.32E+07	2.8E-10		
On-Site	Misc/Perimeter	SVOC	Pyrene	129-00-0	D	6	1	2.40E-02	2.40E-02		2.3E+03	1.0E-05	2.9E+04	8.2E-07	1.8E+08	1.3E-10	9.71E+07	2.5E-10		
On-Site	Misc/Perimeter	INORG	Aluminum	7429-90-5	D	27	27	1.90E+03	1.25E+04	8.35E+03	7.6E+04		5.4E-02	9.2E+05	4.5E-03				1.1E+06	3.8E-03
On-Site	Misc/Perimeter	INORG	Arsenic	7440-38-2	A	27	25	2.50E+00	1.51E+01	7.86E+00	3.9E+00		1.9E+00	1.6E+01	4.5E-01				5.8E+00	1.2E+00
On-Site	Misc/Perimeter	INORG	Barium	7440-39-3	D	27	27	1.40E+01	3.78E+02	2.15E+02	5.4E+03		3.0E-02	6.7E+04	2.5E-03				1.6E+03	9.9E-02
On-Site	Misc/Perimeter	INORG	Beryllium	7440-41-7	B1	27	6	2.20E-01	1.53E+00	8.65E-01	1.5E+02		4.3E-03	1.9E+03	3.4E-04				6.3E+01	1.1E-02
On-Site	Misc/Perimeter	INORG	Cadmium	7440-43-9	B1	27	5	7.30E-02	1.80E-01		3.7E+01		4.9E-03	4.5E+02	4.0E-04				7.5E+00	2.4E-02
On-Site	Misc/Perimeter	INORG	Calcium	7440-70-2		5	5	8.00E+04	1.00E+05											
On-Site	Misc/Perimeter	INORG	Chromium (total)	7440-47-3		27	27	4.10E+00	1.85E+01	1.27E+01	2.2E+02		2.6E-02	2.5E+03	2.3E-03				4.0E+01	1.5E-01
On-Site	Misc/Perimeter	INORG	Cobalt	7440-48-4	B1	27	27	2.03E+00	1.52E+01	6.29E+00	1.4E+03		6.5E-03	1.3E+04	6.7E-04				6.6E+02	1.3E-02
On-Site	Misc/Perimeter	INORG	Copper	7440-50-8	D	27	27	8.90E+00	4.61E+02	2.46E+02	3.1E+03		6.9E-02	4.1E+04	5.2E-03				9.2E+02	2.3E-01
On-Site	Misc/Perimeter	INORG	Iron	7439-89-6	D	27	27	4.89E+03	3.76E+04	2.33E+04	2.3E+04		6.1E-01	3.1E+05	4.7E-02				5.5E+03	2.6E+00
On-Site	Misc/Perimeter	INORG	Lead	7439-92-1	B2	27	27	4.30E+00	1.15E+03	6.20E+02	4.0E+02		1.3E+00	8.0E+02	6.6E-01				2.7E+02	2.0E+00
On-Site	Misc/Perimeter	INORG	Magnesium	7439-95-4		5	5	2.00E+04	4.00E+04											
On-Site	Misc/Perimeter	INORG	Manganese	7439-96-5	D	27	27	1.13E+02	6.38E+02	4.90E+02	1.8E+03		8.4E-02	1.9E+04	7.6E-03				1.1E+03	1.3E-01
On-Site	Misc/Perimeter	INORG	Mercury	7439-97-6	D	27	1	1.33E+00	1.33E+00	9.42E-01										

Table 1-2: Soil Screening Results
Former Delco Plant 5, Kokomo, Indiana

On/Off-Site	Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Screening Criteria (mg/kg)	Ratio of Max Detect to Residential Criteria	Industrial Screening Criteria (mg/kg)	Ratio of Max Detect to Industrial Criteria	Industrial Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Ind Volatilization to Indoor Air Criteria	Residential Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Res Volatilization to Indoor Air Criteria	Migration to Groundwater MCL/Tap Water (mg/kg)	Ratio of Max Detect to MTGW MCL/Tap Water
On-Site	Misc/Perimeter	INORG	Sodium	7440-23-5		5	5	1.20E+02	1.70E+02											
On-Site	Misc/Perimeter	INORG	Thallium	7440-28-0		27	19	2.18E+00	4.63E+00	2.99E+00	5.2E+00	3.2E-01	6.7E+01	2.4E-02					2.8E+00	5.8E-01
On-Site	Misc/Perimeter	INORG	Vanadium	7440-62-2		27	27	6.80E+00	3.84E+01	2.79E+01	7.8E+01	1.3E-01	1.0E+03	1.0E-02					7.3E+02	1.4E-02
On-Site	Misc/Perimeter	INORG	Zinc	7440-66-6	ID	27	27	2.00E+01	2.42E+02	1.90E+02	2.3E+04	2.2E-03	3.1E+05	1.7E-04					1.4E+04	3.8E-03
		Notes:																		
		The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.																		
		The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																		
		The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																		
		The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects																		
		and Aroclor 1254 for noncancer effects.																		
		The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																		
		The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using:																		
		EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.																		
		Chem Group - Chemical Group																		
		Carc Class - EPA Weight-of-Evidence Cancer Classification																		
		Screening criteria are shown at a target risk of 10 ⁵ and a hazard quotient of 1.																		
		Only detected constituents are shown.																		

Table 2-1: Groundwater Scamples Exceeding Screening Criteria Former Delco Plant 5, Kokomo, Indiana																		
On/Off Site	Area	Location	Sample ID	Sample Date	Meas Basis	Chem Group	Chemical	CASRN	Conc (mg/L)	Qual	Drinking Water Criteria (mg/L)	Ratio of Conc to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Conc to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Residential Groundwater Volatilization to Indoor Air Criteria
On-Site	AOI 2	MW-0103-1A	MW-3	06/22/01	T	VOC	1,1-Dichloroethene	75-35-4	1.70E-02		7.00E-03	2.4E+00	1.16E+02	1.5E-04	1.25E+03	1.4E-05	5.96E+02	2.9E-05
On-Site	AOI 2	MW-0103-1A	MW-3	06/22/01	T	VOC	Trichloroethene	79-01-6	1.20E-02		5.00E-03	2.4E+00	2.52E+01	4.8E-04	2.19E+02	5.5E-05	8.94E+01	1.3E-04
On-Site	AOI 2	MW-0103-1A	MW-3	06/22/01	T	VOC	Vinyl Chloride	75-01-4	2.20E-03		2.00E-03	1.1E+00	1.95E+00	1.1E-03	1.80E+01	1.2E-04	7.26E+00	3.0E-04
On-Site	AOI 2	MW-0103-1A	MW-3(111504)	11/15/04	T	VOC	cis-1,2-Dichloroethene	156-59-2	1.10E-01		7.00E-02	1.6E+00	2.13E+01	5.2E-03	9.87E+02	1.1E-04	4.99E+02	2.2E-04
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	VOC	1,1-Dichloroethene	75-35-4	1.30E-02		7.00E-03	1.9E+00	1.16E+02	1.1E-04	1.25E+03	1.0E-05	5.96E+02	2.2E-05
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	VOC	cis-1,2-Dichloroethene	156-59-2	1.60E+00		7.00E-02	2.3E+01	2.13E+01	7.5E-02	9.87E+02	1.6E-03	4.99E+02	3.2E-03
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	VOC	Trichloroethene	79-01-6	1.30E+01		5.00E-03	2.6E+03	2.52E+01	5.2E-01	2.19E+02	5.9E-02	8.94E+01	1.5E-01
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	VOC	Vinyl Chloride	75-01-4	1.40E-01		2.00E-03	7.0E+01	1.95E+00	7.2E-02	1.80E+01	7.8E-03	7.26E+00	1.9E-02
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	INORG	Arsenic	7440-38-2	3.40E-02		1.00E-02	3.4E+00	1.44E+01	2.4E-03				
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	INORG	Iron	7439-89-6	6.02E+01		1.10E+01	5.5E+00	9.23E+04	6.5E-04				
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	INORG	Lead	7439-92-1	3.44E-02		1.50E-02	2.3E+00						
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	INORG	Manganese	7439-96-5	1.08E+00		8.76E-01	1.2E+00	5.96E+03	1.8E-04				
On-Site	AOI 5	MW-0101M-1A	FD-1(111504)	11/15/04	T	INORG	Vanadium	7440-62-2	5.16E-02		3.65E-02	1.4E+00	1.36E+02	3.8E-04				
On-Site	AOI 5	MW-0101M-1A	MW-1M	06/22/01	T	VOC	cis-1,2-Dichloroethene	156-59-2	8.00E-01		7.00E-02	1.1E+01	2.13E+01	3.8E-02	9.87E+02	8.1E-04	4.99E+02	1.6E-03
On-Site	AOI 5	MW-0101M-1A	MW-1M	06/22/01	T	VOC	Trichloroethene	79-01-6	3.10E+00		5.00E-03	6.2E+02	2.52E+01	1.2E-01	2.19E+02	1.4E-02	8.94E+01	3.5E-02
On-Site	AOI 5	MW-0101M-1A	MW-1M	06/22/01	T	VOC	Vinyl Chloride	75-01-4	6.70E-02		2.00E-03	3.4E+01	1.95E+00	3.4E-02	1.80E+01	3.7E-03	7.26E+00	9.2E-03
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	VOC	1,1-Dichloroethene	75-35-4	1.40E-02		7.00E-03	2.0E+00	1.16E+02	1.2E-04	1.25E+03	1.1E-05	5.96E+02	2.3E-05
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	VOC	cis-1,2-Dichloroethene	156-59-2	1.30E+00		7.00E-02	1.9E+01	2.13E+01	6.1E-02	9.87E+02	1.3E-03	4.99E+02	2.6E-03
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	VOC	Trichloroethene	79-01-6	1.10E+01		5.00E-03	2.2E+03	2.52E+01	4.4E-01	2.19E+02	5.0E-02	8.94E+01	1.2E-01
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	VOC	Vinyl Chloride	75-01-4	1.50E-01		2.00E-03	7.5E+01	1.95E+00	7.7E-02	1.80E+01	8.3E-03	7.26E+00	2.1E-02
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	INORG	Arsenic	7440-38-2	3.43E-02		1.00E-02	3.4E+00	1.44E+01	2.4E-03				
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	INORG	Iron	7439-89-6	6.26E+01		1.10E+01	5.7E+00	9.23E+04	6.8E-04				
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	INORG	Lead	7439-92-1	3.69E-02		1.50E-02	2.5E+00						
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	INORG	Manganese	7439-96-5	1.12E+00		8.76E-01	1.3E+00	5.96E+03	1.9E-04				
On-Site	AOI 5	MW-0101M-1A	MW-1M(111504)	11/15/04	T	INORG	Vanadium	7440-62-2	5.34E-02		3.65E-02	1.5E+00	1.36E+02	3.9E-04				
On-Site	AOI 5	MW-0502-1L	MW-0502-1L (101905)	10/19/05	T	VOC	Trichloroethene	79-01-6	8.40E-02		5.00E-03	1.7E+01	2.52E+01	3.3E-03	2.19E+02	3.8E-04	8.94E+01	9.4E-04
On-Site	AOI 5	MW-0502-1L	MW-0502-1L (101905)	10/19/05	T	INORG	Arsenic	7440-38-2	1.93E-02		1.00E-02	1.9E+00	1.44E+01	1.3E-03				
On-Site	AOI 5	MW-0502-1L	MW-0502-1L (101905)	10/19/05	T	INORG	Lead	7439-92-1	4.02E-02		1.50E-02	2.7E+00						
On-Site	AOI 5	MW-0502-1L	MW-0502-1L (101905)	10/19/05	T	INORG	Manganese	7439-96-5	1.73E+00		8.76E-01	2.0E+00	5.96E+03	2.9E-04				
On-Site	AOI 5	MW-0502-1L	MW-0502-1L (101905)	10/19/05	T	INORG	Vanadium	7440-62-2	8.31E-02		3.65E-02	2.3E+00	1.36E+02	6.1E-04				
On-Site	AOI 5	MW-0517-1L	MW-0517-1L (101805)	10/18/05	T	VOC	cis-1,2-Dichloroethene	156-59-2	3.70E-01	J	7.00E-02	5.3E+00	2.13E+01	1.7E-02	9.87E+02	3.7E-04	4.99E+02	7.4E-04
On-Site	AOI 5	MW-0517-1L	MW-0517-1L (101805)	10/18/05	T	VOC	Trichloroethene	79-01-6	6.90E-01	J	5.00E-03	1.4E+02	2.52E+01	2.7E-02	2.19E+02	3.2E-03	8.94E+01	7.7E-03
On-Site	AOI 5	MW-0517-1L	MW-0517-1L (101805)	10/18/05	T	VOC	Vinyl Chloride	75-01-4	1.50E-02	J	2.00E-03	7.5E+00	1.95E+00	7.7E-03	1.80E+01	8.3E-04	7.26E+00	2.1E-03
On-Site	AOI 6	MW-0507-1L	MW-0507-1L (101905)	10/19/05	T	VOC	cis-1,2-Dichloroethene	156-59-2	8.30E-02		7.00E-02	1.2E+00	2.13E+01	3.9E-03	9.87E+02	8.4E-05	4.99E+02	1.7E-04
On-Site	AOI 6	MW-0507-1L	MW-0507-1L (101905)	10/19/05	T	VOC	Trichloroethene	79-01-6	1.60E-02		5.00E-03	3.2E+00	2.52E+01	6.4E-04	2.19E+02	7.3E-05	8.94E+01	1.8E-04
On-Site	AOI 7	MW-0102-1A	MW-2	06/22/01	T	VOC	cis-1,2-Dichloroethene	156-59-2	3.40E-01		7.00E-02	4.9E+00	2.13E+01	1.6E-02	9.87E+02	3.4E-04	4.99E+02	6.8E-04
On-Site	AOI 7	MW-0102-1A	MW-2	06/22/01	T	VOC	Trichloroethene	79-01-6	3.70E-01		5.00E-03	7.4E+01	2.52E+01	1.5E-02	2.19E+02	1.7E-03	8.94E+01	4.1E-03
On-Site	AOI 7	MW-0102-1A	MW-2 DUP	06/22/01	T	VOC	cis-1,2-Dichloroethene	156-59-2	3.60E-01		7.00E-02	5.1E+00	2.13E+01	1.7E-02	9.87E+02	3.6E-04	4.99E+02	7.2E-04
On-Site	AOI 7	MW-0102-1A	MW-2 DUP	06/22/01	T	VOC	Trichloroethene	79-01-6	4.10E-01		5.00E-03	8.2E+01	2.52E+01	1.6E-02	2.19E+02	1.9E-03	8.94E+01	4.6E-03
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	VOC	cis-1,2-Dichloroethene	156-59-2	7.70E-01		7.00E-02	1.1E+01	2.13E+01	3.6E-02	9.87E+02	7.8E-04	4.99E+02	1.5E-03
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	VOC	Trichloroethene	79-01-6	4.60E+00		5.00E-03	9.2E+02	2.52E+01	1.8E-01	2.19E+02	2.1E-02	8.94E+01	5.1E-02
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	VOC	Vinyl Chloride	75-01-4	3.70E-02		2.00E-03	1.9E+01	1.95E+00	1.9E-02	1.80E+01	2.1E-03	7.26E+00	5.1E-03
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	INORG	Arsenic	7440-38-2	4.08E-02		1.00E-02	4.1E+00	1.44E+01	2.8E-03				
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	INORG	Iron	7439-89-6	4.64E+01		1.10E+01	4.2E+00	9.23E+04	5.0E-04				
On-Site	AOI 7	MW-0102-1A	MW-2(111504)	11/15/04	T	INORG	Manganese	7439-96-5	1.89E+00		8.76E-01	2.2E+00	5.96E+03	3.2E-04				
On-Site	AOI 7	MW-0509-2L	MW-0509-2L (101905)	10/19/05	T	INORG	Arsenic	7440-38-2	2.98E-02		1.00E-02	3.0E+00	1.44E+01	2.1E-03				
On-Site	AOI 7	MW-0509-2L	MW-0509-2L (101905)	10/19/05	T	INORG	Lead	7439-92-1	2.96E-02		1.50E-02	2.0E+00						
On-Site	AOI 7	MW-0509-2L	MW-0509-2L (101905)	10/19/05	T	INORG	Vanadium	7440-62-2	5.57E-02		3.65E-02	1.5E+00	1.36E+02	4.1E-04				
On-Site	AOI 7	MW-2-1U	MW-2-IU (102005)	10/20/05	T	VOC	cis-1,2-Dichloroethene	156-59-2	7.70E-01		7.00E-02	1.1E+01	2.13E+01	3.6E-02	9.87E+02	7.8E-04	4.99E+02	1.5E-03
On-Site	AOI 7	MW-2-1U	MW-2-IU (102005)	10/20/05	T	VOC	Trichloroethene	79-01-6	3.80E+00		5.00E-03	7.6E+02	2.52E+01	1.5E-01	2.19E+02	1.7E-02	8.94E+01	4.2E-02
On-Site	AOI 7	MW-2-1U	MW-2-IU (102005)	10/20/05	T	VOC	Vinyl Chloride	75-01-4	2.10E-02		2.00E-03	1.1E+01	1.95E+00	1.1E-02	1.80E+01	1.2E-03	7.26E+00	2.9E-03
On-Site	AOI 7	MW-2-1U	MW-2-IU (102005)	10/20/05	T	INORG	Cadmium	7440-43-9	9.21E-03		5.00E-03	1.8E+00	1.86E+01	4.9E-04				

Table 2-1: Groundwater Scamples Exceeding Screening Criteria Former Delco Plant 5, Kokomo, Indiana																		
On/Off Site	Area	Location	Sample ID	Sample Date	Meas Basis	Chem Group	Chemical	CASRN	Conc (mg/L)	Qual	Drinking Water Criteria (mg/L)	Ratio of Conc to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Conc to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Residential Groundwater Volatilization to Indoor Air Criteria
On-Site	Misc/Perimeter	MW-0504-1L	MW-0504-1L (101805)	10/18/05	T	VOC	cis-1,2-Dichloroethene	156-59-2	6.60E-01		7.00E-02	9.4E+00	2.13E+01	3.1E-02	9.87E+02	6.7E-04	4.99E+02	1.3E-03
On-Site	Misc/Perimeter	MW-0504-1L	MW-0504-1L (101805)	10/18/05	T	VOC	Trichloroethene	79-01-6	1.50E+00		5.00E-03	3.0E+02	2.52E+01	6.0E-02	2.19E+02	6.9E-03	8.94E+01	1.7E-02
On-Site	Misc/Perimeter	MW-0504-1L	MW-0504-1L (101805)	10/18/05	T	VOC	Vinyl Chloride	75-01-4	1.60E-02		2.00E-03	8.0E+00	1.95E+00	8.2E-03	1.80E+01	8.9E-04	7.26E+00	2.2E-03
On-Site	Misc/Perimeter	MW-0504-2L	MW-0504-2L (101805)	10/18/05	T	VOC	Trichloroethene	79-01-6	1.70E-02		5.00E-03	3.4E+00	2.52E+01	6.8E-04	2.19E+02	7.8E-05	8.94E+01	1.9E-04
On-Site	Misc/Perimeter	MW-0505-1L	FD-3 (101905)	10/19/05	T	VOC	Trichloroethene	79-01-6	2.90E-02		5.00E-03	5.8E+00	2.52E+01	1.2E-03	2.19E+02	1.3E-04	8.94E+01	3.2E-04
On-Site	Misc/Perimeter	MW-0505-1L	MW-0505-1L (101905)	10/19/05	T	VOC	Trichloroethene	79-01-6	3.10E-02		5.00E-03	6.2E+00	2.52E+01	1.2E-03	2.19E+02	1.4E-04	8.94E+01	3.5E-04
On-Site	Misc/Perimeter	MW-0505-1L	MW-0505-1L (101905)	10/19/05	T	INORG	Lead	7439-92-1	1.58E-02		1.50E-02	1.1E+00						
On-Site	Misc/Perimeter	MW-0506-2L	MW-0506-2L (101905)	10/19/05	T	INORG	Aluminum	7429-90-5	3.85E+01	J	3.65E+01	1.1E+00	3.08E+05	1.3E-04				
On-Site	Misc/Perimeter	MW-0506-2L	MW-0506-2L (101905)	10/19/05	T	INORG	Arsenic	7440-38-2	1.93E-02		1.00E-02	1.9E+00	1.44E+01	1.3E-03				
On-Site	Misc/Perimeter	MW-0506-2L	MW-0506-2L (101905)	10/19/05	T	INORG	Lead	7439-92-1	2.23E-02		1.50E-02	1.5E+00						
On-Site	Misc/Perimeter	MW-0506-2L	MW-0506-2L (101905)	10/19/05	T	INORG	Manganese	7439-96-5	1.29E+00		8.76E-01	1.5E+00	5.96E+03	2.2E-04				
On-Site	Misc/Perimeter	MW-0506-2L	MW-0506-2L (101905)	10/19/05	T	INORG	Vanadium	7440-62-2	7.21E-02		3.65E-02	2.0E+00	1.36E+02	5.3E-04				
On-Site	Misc/Perimeter	MW-0506-3L	MW-0506-3L (101905)	10/19/05	T	VOC	cis-1,2-Dichloroethene	156-59-2	4.70E-01		7.00E-02	6.7E+00	2.13E+01	2.2E-02	9.87E+02	4.8E-04	4.99E+02	9.4E-04
On-Site	Misc/Perimeter	MW-0506-3L	MW-0506-3L (101905)	10/19/05	T	VOC	Trichloroethene	79-01-6	6.30E-01		5.00E-03	1.3E+02	2.52E+01	2.5E-02	2.19E+02	2.9E-03	8.94E+01	7.0E-03
Notes:																		
Ratios of concentrations to criteria greater than 1 are highlighted.																		
Screening criteria are shown at a target risk of 10 -5 and a hazard quotient of 1.																		
Chem Group - Chemical Group																		
Meas Basis - Measured Basis; T = Total, D = Dissolved																		

Table 2-2: Groundwater Screening Results Former Delco Plant 5, Kokomo, Indiana																			
On/Off-site	Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detect (mg/L)	Max Detect (mg/L)	Drinking Water Criteria (mg/L)	Ratio of Max Detect to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Max Detect to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to Residential Groundwater Volatilization to Indoor Air Criteria	
On-Site	AOI 2	VOC	1,1-Dichloroethene	75-35-4	T	C	2	1	1.70E-02	1.70E-02	7.00E-03	2.4E+00	1.16E+02	1.5E-04	1.25E+03	1.4E-05	5.96E+02	2.9E-05	
On-Site	AOI 2	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	2	2	7.10E-02	1.10E-01	7.00E-02	1.6E+00	2.13E+01	5.2E-03	9.87E+02	1.1E-04	4.99E+02	2.2E-04	
On-Site	AOI 2	VOC	trans-1,2-Dichloroethene	156-60-5	T		2	2	1.80E-02	2.50E-02	1.00E-01	2.5E-01	4.14E+01	6.0E-04	8.21E+02	3.0E-05	4.05E+02	6.2E-05	
On-Site	AOI 2	VOC	Trichloroethene	79-01-6	T	C-B2	2	1	1.20E-02	1.20E-02	5.00E-03	2.4E+00	2.52E+01	4.8E-04	2.19E+02	5.5E-05	8.94E+01	1.3E-04	
On-Site	AOI 2	VOC	Vinyl Chloride	75-01-4	T	A	2	1	2.20E-03	2.20E-03	2.00E-03	1.1E+00	1.95E+00	1.1E-03	1.80E+01	1.2E-04	7.26E+00	3.0E-04	
On-Site	AOI 2	SVOC	2-Methylnaphthalene	91-57-6	T	ID	1	1	6.50E-04	6.50E-04	7.30E-01	8.9E-04	2.39E+00	2.7E-04	5.73E+02	1.1E-06	3.03E+02	2.1E-06	
On-Site	AOI 2	INORG	Aluminum	7429-90-5	T	D	1	1	3.97E+00	3.97E+00	3.65E+01	1.1E-01	3.08E+05	1.3E-05					
On-Site	AOI 2	INORG	Arsenic	7440-38-2	D	A	1	1	5.24E-03	5.24E-03	1.00E-02	5.2E-01	1.44E+01	3.6E-04					
On-Site	AOI 2	INORG	Arsenic	7440-38-2	T	A	1	1	7.74E-03	7.74E-03	1.00E-02	7.7E-01	1.44E+01	5.4E-04					
On-Site	AOI 2	INORG	Barium	7440-39-3	D	D	1	1	1.72E-01	1.72E-01	2.00E+00	8.6E-02	3.43E+03	5.0E-05					
On-Site	AOI 2	INORG	Barium	7440-39-3	T	D	1	1	1.96E-01	1.96E-01	2.00E+00	9.8E-02	3.43E+03	5.7E-05					
On-Site	AOI 2	INORG	Chromium (total)	7440-47-3	T		1	1	6.40E-03	6.40E-03	1.00E-01	6.4E-02	2.85E+01	2.2E-04					
On-Site	AOI 2	INORG	Cobalt	7440-48-4	T	B1	1	1	3.20E-03	3.20E-03	7.30E-01	4.4E-03	8.09E+03	4.0E-07					
On-Site	AOI 2	INORG	Copper	7440-50-8	T	D	1	1	6.96E-03	6.96E-03	1.30E+00	5.4E-03	1.23E+04	5.7E-07					
On-Site	AOI 2	INORG	Iron	7439-89-6	D	D	1	1	2.66E+00	2.66E+00	1.10E+01	2.4E-01	9.23E+04	2.9E-05					
On-Site	AOI 2	INORG	Iron	7439-89-6	T	D	1	1	8.90E+00	8.90E+00	1.10E+01	8.1E-01	9.23E+04	9.6E-05					
On-Site	AOI 2	INORG	Manganese	7439-96-5	D	D	1	1	1.62E-01	1.62E-01	8.76E-01	1.8E-01	5.96E+03	2.7E-05					
On-Site	AOI 2	INORG	Manganese	7439-96-5	T	D	1	1	3.12E-01	3.12E-01	8.76E-01	3.6E-01	5.96E+03	5.2E-05					
On-Site	AOI 2	INORG	Nickel	7440-02-0	T	A	1	1	8.44E-03	8.44E-03	7.30E-01	1.2E-02	2.38E+03	3.6E-06					
On-Site	AOI 2	INORG	Vanadium	7440-62-2	T		1	1	8.52E-03	8.52E-03	3.65E-02	2.3E-01	1.36E+02	6.3E-05					
On-Site	AOI 2	INORG	Zinc	7440-66-6	D	ID	1	1	3.28E-03	3.28E-03	1.10E+01	3.0E-04	1.10E+05	3.0E-08					
On-Site	AOI 2	INORG	Zinc	7440-66-6	T	ID	1	1	3.69E-02	3.69E-02	1.10E+01	3.4E-03	1.10E+05	3.4E-07					
On-Site	AOI 5	VOC	Chloroform	67-66-3	T	B2	6	1	7.40E-03	7.40E-03	1.00E-01	7.4E-02	2.13E+00	3.5E-03	3.71E+01	2.0E-04	1.59E+01	4.7E-04	
On-Site	AOI 5	VOC	1,1-Dichloroethane	75-34-3	T	C	6	1	8.40E-03	8.40E-03	3.65E+00	2.3E-03	3.02E+02	2.8E-05	1.08E+04	7.8E-07	5.40E+03	1.6E-06	
On-Site	AOI 5	VOC	1,1-Dichloroethene	75-35-4	T	C	6	2	1.30E-02	1.40E-02	7.00E-03	2.0E+00	1.16E+02	1.2E-04	1.25E+03	1.1E-05	5.96E+02	2.3E-05	
On-Site	AOI 5	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	6	5	9.90E-03	1.60E+00	7.00E-02	2.3E+01	2.13E+01	7.5E-02	9.87E+02	1.6E-03	4.99E+02	3.2E-03	
On-Site	AOI 5	VOC	trans-1,2-Dichloroethene	156-60-5	T		6	3	4.20E-02	7.30E-02	1.00E-01	7.3E-01	4.14E+01	1.8E-03	8.21E+02	8.9E-05	4.05E+02	1.8E-04	
On-Site	AOI 5	VOC	Trichloroethene	79-01-6	T	C-B2	6	5	8.40E-02	1.30E+01	5.00E-03	2.6E+03	2.52E+01	5.2E-01	2.19E+02	5.9E-02	8.94E+01	1.5E-01	
On-Site	AOI 5	VOC	Vinyl Chloride	75-01-4	T	A	6	4	1.50E-02	1.50E-01	2.00E-03	7.5E+01	1.95E+00	7.7E-02	1.80E+01	8.3E-03	7.26E+00	2.1E-02	
On-Site	AOI 5	SVOC	2-Methylnaphthalene	91-57-6	T	ID	5	1	6.10E-04	6.10E-04	7.30E-01	8.4E-04	2.39E+00	2.6E-04	5.73E+02	1.1E-06	3.03E+02	2.0E-06	
On-Site	AOI 5	INORG	Aluminum	7429-90-5	D	D	4	1	2.69E-02	2.69E-02	3.65E+01	7.4E-04	3.08E+05	8.7E-08					
On-Site	AOI 5	INORG	Aluminum	7429-90-5	T	D	5	5	1.15E+00	3.37E+01	3.65E+01	9.2E-01	3.08E+05	1.1E-04					
On-Site	AOI 5	INORG	Arsenic	7440-38-2	D	A	4	2	2.03E-03	2.40E-03	1.00E-02	2.4E-01	1.44E+01	1.7E-04					
On-Site	AOI 5	INORG	Arsenic	7440-38-2	T	A	5	4	8.37E-03	3.43E-02	1.00E-02	3.4E+00	1.44E+01	2.4E-03					
On-Site	AOI 5	INORG	Barium	7440-39-3	D	D	4	3	1.06E-01	1.30E-01	2.00E+00	6.5E-02	3.43E+03	3.8E-05					
On-Site	AOI 5	INORG	Barium	7440-39-3	T	D	5	5	2.15E-01	3.69E-01	2.00E+00	1.8E-01	3.43E+03	1.1E-04					
On-Site	AOI 5	INORG	Beryllium	7440-41-7	T	B1	5	2	1.11E-03	1.30E-03	4.00E-03	3.3E-01	1.07E+01	1.2E-04					
On-Site	AOI 5	INORG	Cadmium	7440-43-9	T	B1	5	2	6.17E-04	8.24E-04	5.00E-03	1.6E-01	1.86E+01	4.4E-05					
On-Site	AOI 5	INORG	Chromium (total)	7440-47-3	T		5	4	2.67E-02	5.95E-02	1.00E-01	6.0E-01	2.85E+01	2.1E-03					
On-Site	AOI 5	INORG	Cobalt	7440-48-4	T	B1	5	2	1.26E-02	1.30E-02	7.30E-01	1.8E-02	8.09E+03	1.6E-06					
On-Site	AOI 5	INORG	Copper	7440-50-8	T	D	5	4	2.70E-02	8.01E-02	1.30E+00	6.2E-02	1.23E+04	6.5E-06					
On-Site	AOI 5	INORG	Iron	7439-89-6	D	D	2	2	2.32E+00	2.49E+00	1.10E+01	2.3E-01	9.23E+04	2.7E-05					
On-Site	AOI 5	INORG	Iron	7439-89-6	T	D	2	2	6.02E+01	6.26E+01	1.10E+01	5.7E+00	9.23E+04	6.8E-04					
On-Site	AOI 5	INORG	Lead	7439-92-1	T	B2	5	4	1.42E-02	4.02E-02	1.50E-02	2.7E+00							
On-Site	AOI 5	INORG	Manganese	7439-96-5	D	D	4	4	8.90E-02	1.99E-01	8.76E-01	2.3E-01	5.96E+03	3.3E-05					
On-Site	AOI 5	INORG	Manganese	7439-96-5	T	D	5	5	1.77E-01	1.73E+00	8.76E-01	2.0E+00	5.96E+03	2.9E-04					
On-Site	AOI 5	INORG	Nickel	7440-02-0	T	A	5	3	3.74E-02	6.52E-02	7.30E-01	8.9E-02	2.38E+03	2.7E-05					
On-Site	AOI 5	INORG	Thallium	7440-28-0	D		4	1	4.65E-04	4.65E-04	2.00E-03	2.3E-01	2.15E+01	2.2E-05					
On-Site	AOI 5	INORG	Thallium	7440-28-0	T		5	1	1.06E-03	1.06E-03	2.00E-03	5.3E-01	2.15E+01	4.9E-05					
On-Site	AOI 5	INORG	Vanadium	7440-62-2	T		5	3	5.16E-02	8.31E-02	3.65E-02	2.3E+00	1.36E+02	6.1E-04					
On-Site	AOI 5	INORG	Zinc	7440-66-6	D	ID	4	2	2.97E-03	3.85E-03	1.10E+01	3.5E-04	1.10E+05	3.5E-08					
On-Site	AOI 5	INORG	Zinc	7440-66-6	T	ID	5	4	7.35E-02	2.19E-01	1.10E+01	2.0E-02	1.10E+05	2.0E-06					

Table 2-2: Groundwater Screening Results
Former Delco Plant 5, Kokomo, Indiana

On/Off-site	Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detect (mg/L)	Max Detect (mg/L)	Drinking Water Criteria (mg/L)	Ratio of Max Detect to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Max Detect to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to Residential Groundwater Volatilization to Indoor Air Criteria
On-Site	AOI 6	VOC	1,1-Dichloroethane	75-34-3	T	C	1	1	3.90E-02	3.90E-02	3.65E+00	1.1E-02	3.02E+02	1.3E-04	1.08E+04	3.6E-06	5.40E+03	7.2E-06
On-Site	AOI 6	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	1	1	8.30E-02	8.30E-02	7.00E-02	1.2E+00	2.13E+01	3.9E-03	9.87E+02	8.4E-05	4.99E+02	1.7E-04
On-Site	AOI 6	VOC	1,1,1-Trichloroethane	71-55-6	T	D	1	1	9.00E-03	9.00E-03	2.00E-01	4.5E-02	1.38E+03	6.5E-06	1.99E+04	4.5E-07	9.55E+03	9.4E-07
On-Site	AOI 6	VOC	Trichloroethene	79-01-6	T	C-B2	1	1	1.60E-02	1.60E-02	5.00E-03	3.2E+00	2.52E+01	6.4E-04	2.19E+02	7.3E-05	8.94E+01	1.8E-04
On-Site	AOI 6	INORG	Aluminum	7429-90-5	T	D	1	1	1.15E+01	1.15E+01	3.65E+01	3.2E-01	3.08E+05	3.7E-05				
On-Site	AOI 6	INORG	Arsenic	7440-38-2	T	A	1	1	8.31E-03	8.31E-03	1.00E-02	8.3E-01	1.44E+01	5.8E-04				
On-Site	AOI 6	INORG	Barium	7440-39-3	T	D	1	1	1.67E-01	1.67E-01	2.00E+00	8.4E-02	3.43E+03	4.9E-05				
On-Site	AOI 6	INORG	Chromium (total)	7440-47-3	T		1	1	6.15E-02	6.15E-02	1.00E-01	6.2E-01	2.85E+01	2.2E-03				
On-Site	AOI 6	INORG	Copper	7440-50-8	T	D	1	1	3.15E-02	3.15E-02	1.30E+00	2.4E-02	1.23E+04	2.6E-06				
On-Site	AOI 6	INORG	Lead	7439-92-1	T	B2	1	1	1.01E-02	1.01E-02	1.50E-02	6.7E-01						
On-Site	AOI 6	INORG	Manganese	7439-96-5	D	D	1	1	2.44E-01	2.44E-01	8.76E-01	2.8E-01	5.96E+03	4.1E-05				
On-Site	AOI 6	INORG	Manganese	7439-96-5	T	D	1	1	6.57E-01	6.57E-01	8.76E-01	7.5E-01	5.96E+03	1.1E-04				
On-Site	AOI 6	INORG	Zinc	7440-66-6	T	ID	1	1	6.23E-02	6.23E-02	1.10E+01	5.7E-03	1.10E+05	5.7E-07				
On-Site	AOI 7	VOC	1,1-Dichloroethene	75-35-4	T	C	7	1	5.10E-03	5.10E-03	7.00E-03	7.3E-01	1.16E+02	4.4E-05	1.25E+03	4.1E-06	5.96E+02	8.6E-06
On-Site	AOI 7	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	7	4	3.40E-01	7.70E-01	7.00E-02	1.1E+01	2.13E+01	3.6E-02	9.87E+02	7.8E-04	4.99E+02	1.5E-03
On-Site	AOI 7	VOC	trans-1,2-Dichloroethene	156-60-5	T		7	2	6.80E-02	7.40E-02	1.00E-01	7.4E-01	4.14E+01	1.8E-03	8.21E+02	9.0E-05	4.05E+02	1.8E-04
On-Site	AOI 7	VOC	Trichloroethene	79-01-6	T	C-B2	7	4	3.70E-01	4.60E+00	5.00E-03	9.2E+02	2.52E+01	1.8E-01	2.19E+02	2.1E-02	8.94E+01	5.1E-02
On-Site	AOI 7	VOC	Vinyl Chloride	75-01-4	T	A	7	2	2.10E-02	3.70E-02	2.00E-03	1.9E+01	1.95E+00	1.9E-02	1.80E+01	2.1E-03	7.26E+00	5.1E-03
On-Site	AOI 7	SVOC	2-Methylnaphthalene	91-57-6	T	ID	1	1	6.40E-04	6.40E-04	7.30E-01	8.8E-04	2.39E+00	2.7E-04	5.73E+02	1.1E-06	3.03E+02	2.1E-06
On-Site	AOI 7	INORG	Aluminum	7429-90-5	D	D	4	1	2.21E-02	2.21E-02	3.65E+01	6.1E-04	3.08E+05	7.2E-08				
On-Site	AOI 7	INORG	Aluminum	7429-90-5	T	D	5	4	2.22E+00	2.60E+01	3.65E+01	7.1E-01	3.08E+05	8.4E-05				
On-Site	AOI 7	INORG	Arsenic	7440-38-2	T	A	5	4	6.38E-03	4.08E-02	1.00E-02	4.1E+00	1.44E+01	2.8E-03				
On-Site	AOI 7	INORG	Barium	7440-39-3	D	D	4	4	1.02E-01	3.47E-01	2.00E+00	1.7E-01	3.43E+03	1.0E-04				
On-Site	AOI 7	INORG	Barium	7440-39-3	T	D	5	5	1.19E-01	5.61E-01	2.00E+00	2.8E-01	3.43E+03	1.6E-04				
On-Site	AOI 7	INORG	Beryllium	7440-41-7	T	B1	5	1	8.56E-04	8.56E-04	4.00E-03	2.1E-01	1.07E+01	8.0E-05				
On-Site	AOI 7	INORG	Cadmium	7440-43-9	T	B1	5	1	9.21E-03	9.21E-03	5.00E-03	1.8E+00	1.86E+01	4.9E-04				
On-Site	AOI 7	INORG	Chromium (total)	7440-47-3	T		5	3	1.44E-02	5.39E-02	1.00E-01	5.4E-01	2.85E+01	1.9E-03				
On-Site	AOI 7	INORG	Cobalt	7440-48-4	D	B1	4	1	1.44E-03	1.44E-03	7.30E-01	2.0E-03	8.09E+03	1.8E-07				
On-Site	AOI 7	INORG	Cobalt	7440-48-4	T	B1	5	1	5.15E-03	5.15E-03	7.30E-01	7.1E-03	8.09E+03	6.4E-07				
On-Site	AOI 7	INORG	Copper	7440-50-8	T	D	5	2	1.49E-02	6.52E-02	1.30E+00	5.0E-02	1.23E+04	5.3E-06				
On-Site	AOI 7	INORG	Iron	7439-89-6	D	D	1	1	2.31E+00	2.31E+00	1.10E+01	2.1E-01	9.23E+04	2.5E-05				
On-Site	AOI 7	INORG	Iron	7439-89-6	T	D	1	1	4.64E+01	4.64E+01	1.10E+01	4.2E+00	9.23E+04	5.0E-04				
On-Site	AOI 7	INORG	Lead	7439-92-1	T	B2	5	3	7.95E-03	2.96E-02	1.50E-02	2.0E+00						
On-Site	AOI 7	INORG	Manganese	7439-96-5	D	D	4	4	7.49E-02	2.91E-01	8.76E-01	3.3E-01	5.96E+03	4.9E-05				
On-Site	AOI 7	INORG	Manganese	7439-96-5	T	D	5	5	2.79E-01	1.89E+00	8.76E-01	2.2E+00	5.96E+03	3.2E-04				
On-Site	AOI 7	INORG	Nickel	7440-02-0	D	A	4	1	2.05E-02	2.05E-02	7.30E-01	2.8E-02	2.38E+03	8.6E-06				
On-Site	AOI 7	INORG	Nickel	7440-02-0	T	A	5	2	3.32E-02	4.64E-02	7.30E-01	6.4E-02	2.38E+03	2.0E-05				
On-Site	AOI 7	INORG	Vanadium	7440-62-2	T		5	2	1.75E-02	5.57E-02	3.65E-02	1.5E+00	1.36E+02	4.1E-04				
On-Site	AOI 7	INORG	Zinc	7440-66-6	T	ID	5	3	4.30E-02	1.83E-01	1.10E+01	1.7E-02	1.10E+05	1.7E-06				
On-Site	Misc/Perimeter	VOC	Chloroform	67-66-3	T	B2	15	3	5.60E-03	1.10E-02	1.00E-01	1.1E-01	2.13E+00	5.2E-03	3.71E+01	3.0E-04	1.59E+01	6.9E-04
On-Site	Misc/Perimeter	VOC	1,1-Dichloroethane	75-34-3	T	C	15	1	1.30E-02	1.30E-02	3.65E+00	3.6E-03	3.02E+02	4.3E-05	1.08E+04	1.2E-06	5.40E+03	2.4E-06
On-Site	Misc/Perimeter	VOC	1,1-Dichloroethene	75-35-4	T	C	15	1	5.80E-03	5.80E-03	7.00E-03	8.3E-01	1.16E+02	5.0E-05	1.25E+03	4.7E-06	5.96E+02	9.7E-06
On-Site	Misc/Perimeter	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	15	7	5.00E-03	6.60E-01	7.00E-02	9.4E+00	2.13E+01	3.1E-02	9.87E+02	6.7E-04	4.99E+02	1.3E-03
On-Site	Misc/Perimeter	VOC	trans-1,2-Dichloroethene	156-60-5	T		15	2	4.40E-02	6.20E-02	1.00E-01	6.2E-01	4.14E+01	1.5E-03	8.21E+02	7.6E-05	4.05E+02	1.5E-04
On-Site	Misc/Perimeter	VOC	Trichloroethene	79-01-6	T	C-B2	15	5	1.70E-02	1.50E+00	5.00E-03	3.0E+02	2.52E+01	6.0E-02	2.19E+02	6.9E-03	8.94E+01	1.7E-02
On-Site	Misc/Perimeter	VOC	Vinyl Chloride	75-01-4	T	A	15	1	1.60E-02	1.60E-02	2.00E-03	8.0E+00	1.95E+00	8.2E-03	1.80E+01	8.9E-04	7.26E+00	2.2E-03
On-Site	Misc/Perimeter	INORG	Aluminum	7429-90-5	T	D	8	8	5.74E-01	3.85E+01	3.65E+01	1.1E+00	3.08E+05	1.3E-04				
On-Site	Misc/Perimeter	INORG	Arsenic	7440-38-2	D	A	7	1	5.09E-03	5.09E-03	1.00E-02	5.1E-01	1.44E+01	3.5E-04				
On-Site	Misc/Perimeter	INORG	Arsenic	7440-38-2	T	A	8	4	5.22E-03	1.93E-02	1.00E-02	1.9E+00	1.44E+01	1.3E-03				
On-Site	Misc/Perimeter	INORG	Barium	7440-39-3	D	D	7	5	1.58E-01	4.03E-01	2.00E+00	2.0E-01	3.43E+03	1.2E-04				
On-Site	Misc/Perimeter	INORG	Barium	7440-39-3	T	D	8	6	1.49E-01	7.17E-01	2.00E+00	3.6E-01	3.43E+03	2.1E-04				
On-Site	Misc/Perimeter	INORG	Chromium (total)	7440-47-3	T		8	5	1.34E-02	6.58E-02	1.00E-01	6.6E-01	2.85E+01	2.3E-03				

Table 2-2: Groundwater Screening Results Former Delco Plant 5, Kokomo, Indiana																		
On/Off-site	Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analized	Detected	Min Detect (mg/L)	Max Detect (mg/L)	Drinking Water Criteria (mg/L)	Ratio of Max Detect to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Max Detect to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to Residential Groundwater Volatilization to Indoor Air Criteria
On-Site	Misc/Perimeter	INORG	Copper	7440-50-8	T	D	8	2	3.22E-02	7.20E-02	1.30E+00	5.5E-02	1.23E+04	5.8E-06				
On-Site	Misc/Perimeter	INORG	Lead	7439-92-1	T	B2	8	3	6.10E-03	2.23E-02	1.50E-02	1.5E+00						
On-Site	Misc/Perimeter	INORG	Manganese	7439-96-5	D	D	7	7	1.10E-01	3.69E-01	8.76E-01	4.2E-01	5.96E+03	6.2E-05				
On-Site	Misc/Perimeter	INORG	Manganese	7439-96-5	T	D	8	8	1.83E-01	1.29E+00	8.76E-01	1.5E+00	5.96E+03	2.2E-04				
On-Site	Misc/Perimeter	INORG	Nickel	7440-02-0	T	A	8	1	7.22E-02	7.22E-02	7.30E-01	9.9E-02	2.38E+03	3.0E-05				
On-Site	Misc/Perimeter	INORG	Vanadium	7440-62-2	T		8	1	7.21E-02	7.21E-02	3.65E-02	2.0E+00	1.36E+02	5.3E-04				
On-Site	Misc/Perimeter	INORG	Zinc	7440-66-6	T	ID	8	5	2.54E-02	1.76E-01	1.10E+01	1.6E-02	1.10E+05	1.6E-06				
Notes:																		
The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.																		
The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																		
Only detected constituents are shown.																		
Chem Group - Chemical Group																		
Meas Basis - Measured Basis; T = Total, D = Dissolved																		
Carc Class - EPA Weight-of-Evidence Cancer Classification																		
Screening criteria are shown at a target risk of 10 -5 and a hazard quotient of 1.																		

Table 3-1: Borehole Water Scamples Exceeding Screening Criteria Former Delco Plant 5, Kokomo, Indiana																		
On/Off Site	Area	Location	Sample ID	Sample Date	Meas Basis	Chem Group	Chemical	CASRN	Conc (mg/L)	Qual	Drinking Water Criteria (mg/L)	Ratio of Conc to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Conc to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Conc to Residential Groundwater Volatilization to Indoor Air Criteria
On-Site	AOI 5	GP-10	GP-10W	5/4/1999	T	VOC	Trichloroethene	79-01-6	2.80E-01		5.00E-03	5.6E+01	2.52E+01	1.1E-02	2.19E+02	1.3E-03	8.94E+01	3.1E-03
On-Site	AOI 5	GP-6	GP-6W	5/4/1999	T	VOC	Trichloroethene	79-01-6	3.00E-01		5.00E-03	6.0E+01	2.52E+01	1.2E-02	2.19E+02	1.4E-03	8.94E+01	3.4E-03
On-Site	AOI 5	GP-7	GP-7W	5/4/1999	T	VOC	Trichloroethene	79-01-6	1.80E-02		5.00E-03	3.6E+00	2.52E+01	7.2E-04	2.19E+02	8.2E-05	8.94E+01	2.0E-04
On-Site	AOI 5	GP-8	GP-8W	5/4/1999	T	VOC	Trichloroethene	79-01-6	6.00E-03		5.00E-03	1.2E+00	2.52E+01	2.4E-04	2.19E+02	2.7E-05	8.94E+01	6.7E-05
On-Site	AOI 5	GP-8	GP-8W	5/4/1999	T	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	2.10E-02		6.00E-03	3.5E+00	9.08E-01	2.3E-02	5.66E+05	3.7E-08	1.87E+05	1.1E-07
On-Site	AOI 5	GP-9	GP-9W	5/4/1999	T	VOC	Trichloroethene	79-01-6	1.30E-02		5.00E-03	2.6E+00	2.52E+01	5.2E-04	2.19E+02	5.9E-05	8.94E+01	1.5E-04
On-Site	AOI 5	P1	P1-6.5-10.5	5/22/2001	T	VOC	Trichloroethene	79-01-6	8.20E-02		5.00E-03	1.6E+01	2.52E+01	3.3E-03	2.19E+02	3.7E-04	8.94E+01	9.2E-04
On-Site	AOI 5	P2	P2-7-11	5/22/2001	T	VOC	Trichloroethene	79-01-6	7.50E-02		5.00E-03	1.5E+01	2.52E+01	3.0E-03	2.19E+02	3.4E-04	8.94E+01	8.4E-04
On-Site	AOI 5	P4	P4-7-11	5/22/2001	T	VOC	cis-1,2-Dichloroethene	156-59-2	9.90E-02		7.00E-02	1.4E+00	2.13E+01	4.7E-03	9.87E+02	1.0E-04	4.99E+02	2.0E-04
On-Site	AOI 5	P4	P4-7-11	5/22/2001	T	VOC	Trichloroethene	79-01-6	1.80E+00		5.00E-03	3.6E+02	2.52E+01	7.2E-02	2.19E+02	8.2E-03	8.94E+01	2.0E-02
On-Site	AOI 5	P5	P5-7-11	5/22/2001	T	VOC	cis-1,2-Dichloroethene	156-59-2	1.30E-01		7.00E-02	1.9E+00	2.13E+01	6.1E-03	9.87E+02	1.3E-04	4.99E+02	2.6E-04
On-Site	AOI 5	P5	P5-7-11	5/22/2001	T	VOC	Trichloroethene	79-01-6	3.60E-01		5.00E-03	7.2E+01	2.52E+01	1.4E-02	2.19E+02	1.6E-03	8.94E+01	4.0E-03
On-Site	AOI 5	P6	P6-7-11	5/22/2001	T	VOC	1,1-Dichloroethene	75-35-4	1.70E-02		7.00E-03	2.4E+00	1.16E+02	1.5E-04	1.25E+03	1.4E-05	5.96E+02	2.9E-05
On-Site	AOI 5	P6	P6-7-11	5/22/2001	T	VOC	cis-1,2-Dichloroethene	156-59-2	2.60E-01		7.00E-02	3.7E+00	2.13E+01	1.2E-02	9.87E+02	2.6E-04	4.99E+02	5.2E-04
On-Site	AOI 5	P6	P6-7-11	5/22/2001	T	VOC	Trichloroethene	79-01-6	1.60E+00		5.00E-03	3.2E+02	2.52E+01	6.4E-02	2.19E+02	7.3E-03	8.94E+01	1.8E-02
On-Site	AOI 5	P6	P6-7-11	5/22/2001	T	VOC	Vinyl Chloride	75-01-4	2.30E-03		2.00E-03	1.2E+00	1.95E+00	1.2E-03	1.80E+01	1.3E-04	7.26E+00	3.2E-04
On-Site	AOI 6	GP-1	GP-1W	5/3/1999	T	VOC	Tetrachloroethene	127-18-4	2.10E-01		5.00E-03	4.2E+01	1.33E+01	1.6E-02	8.14E+01	2.6E-03	3.23E+01	6.5E-03
On-Site	AOI 6	GP-1	GP-1W	5/3/1999	T	VOC	1,1,1-Trichloroethane	71-55-6	2.20E-01		2.00E-01	1.1E+00	1.38E+03	1.6E-04	1.99E+04	1.1E-05	9.55E+03	2.3E-05
On-Site	AOI 6	GP-1	GP-1W	5/3/1999	T	VOC	Trichloroethene	79-01-6	3.60E-01		5.00E-03	7.2E+01	2.52E+01	1.4E-02	2.19E+02	1.6E-03	8.94E+01	4.0E-03
On-Site	AOI 6	GP-1	GP-1W	5/3/1999	T	INORG	Chromium (total)	7440-47-3	2.96E-01		1.00E-01	3.0E+00	2.85E+01	1.0E-02				
On-Site	AOI 6	GP-2	GP-2W	5/3/1999	T	VOC	Tetrachloroethene	127-18-4	4.30E-01		5.00E-03	8.6E+01	1.33E+01	3.2E-02	8.14E+01	5.3E-03	3.23E+01	1.3E-02
On-Site	AOI 6	GP-2	GP-2W	5/3/1999	T	VOC	Trichloroethene	79-01-6	6.90E-02		5.00E-03	1.4E+01	2.52E+01	2.7E-03	2.19E+02	3.2E-04	8.94E+01	7.7E-04
On-Site	AOI 6	GP-3	GP-3W	5/3/1999	T	VOC	Vinyl Chloride	75-01-4	8.80E-03		2.00E-03	4.4E+00	1.95E+00	4.5E-03	1.80E+01	4.9E-04	7.26E+00	1.2E-03
On-Site	AOI 6	GP-3	GP-3W	5/3/1999	T	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	1.50E-01		6.00E-03	2.5E+01	9.08E-01	1.7E-01	5.66E+05	2.7E-07	1.87E+05	8.0E-07
On-Site	AOI 6	GP-3	GP-3W	5/3/1999	T	INORG	Chromium (total)	7440-47-3	1.75E-01		1.00E-01	1.8E+00	2.85E+01	6.1E-03				
On-Site	AOI 6	GP-4	GP-4W	5/3/1999	T	VOC	Tetrachloroethene	127-18-4	9.30E-03		5.00E-03	1.9E+00	1.33E+01	7.0E-04	8.14E+01	1.1E-04	3.23E+01	2.9E-04
On-Site	AOI 6	GP-4	GP-4W	5/3/1999	T	VOC	Trichloroethene	79-01-6	7.90E-03		5.00E-03	1.6E+00	2.52E+01	3.1E-04	2.19E+02	3.6E-05	8.94E+01	8.8E-05
On-Site	AOI 6	GP-5	GP-5W	5/3/1999	T	VOC	cis-1,2-Dichloroethene	156-59-2	8.70E-02		7.00E-02	1.2E+00	2.13E+01	4.1E-03	9.87E+02	8.8E-05	4.99E+02	1.7E-04
On-Site	AOI 6	GP-5	GP-5W	5/3/1999	T	VOC	Tetrachloroethene	127-18-4	1.30E-02		5.00E-03	2.6E+00	1.33E+01	9.8E-04	8.14E+01	1.6E-04	3.23E+01	4.0E-04
On-Site	AOI 6	GP-5	GP-5W	5/3/1999	T	VOC	Trichloroethene	79-01-6	7.40E-03		5.00E-03	1.5E+00	2.52E+01	2.9E-04	2.19E+02	3.4E-05	8.94E+01	8.3E-05
On-Site	AOI 6	GP-5	GP-5W	5/3/1999	T	VOC	Vinyl Chloride	75-01-4	2.10E-02		2.00E-03	1.1E+01	1.95E+00	1.1E-02	1.80E+01	1.2E-03	7.26E+00	2.9E-03
On-Site	AOI 6	GP-5	GP-5W	5/3/1999	T	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	3.20E-02		6.00E-03	5.3E+00	9.08E-01	3.5E-02	5.66E+05	5.7E-08	1.87E+05	1.7E-07
On-Site	AOI 7	SB-0529	SB-0529(091505)	9/15/2005	T	VOC	Trichloroethene	79-01-6	1.30E+00		5.00E-03	2.6E+02	2.52E+01	5.2E-02	2.19E+02	5.9E-03	8.94E+01	1.5E-02
On-Site	AOI 7	SB-0531	FD-1(091605)	9/16/2005	T	VOC	Trichloroethene	79-01-6	1.10E-02		5.00E-03	2.2E+00	2.52E+01	4.4E-04	2.19E+02	5.0E-05	8.94E+01	1.2E-04
On-Site	AOI 7	SB-0531	SB-0531(091505)-49	9/15/2005	T	VOC	Trichloroethene	79-01-6	2.10E-01		5.00E-03	4.2E+01	2.52E+01	8.3E-03	2.19E+02	9.6E-04	8.94E+01	2.3E-03
On-Site	AOI 7	SB-0532	SB-0532(091605)	9/16/2005	T	VOC	Trichloroethene	79-01-6	9.20E-02		5.00E-03	1.8E+01	2.52E+01	3.7E-03	2.19E+02	4.2E-04	8.94E+01	1.0E-03
Notes:																		
Ratios of concentrations to criteria greater than 1 are highlighted.																		
Screening criteria are shown at a target risk of 10 -5 and a hazard quotient of 1.																		
Chem Group - Chemical Group																		
Meas Basis - Measured Basis; T = Total, D = Dissolved																		

Table 3-2: Borehole Water Screening Results Former Delco Plant 5, Kokomo, Indiana																		
On/Off-site	Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detect (mg/L)	Max Detect (mg/L)	Drinking Water Criteria (mg/L)	Ratio of Max Detect to Drinking Water Criteria	Construction Worker Groundwater Contact Criteria (mg/L)	Ratio of Max Detect to Construction Worker Groundwater Contact Criteria	Industrial Groundwater Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to Industrial Groundwater Volatilization to Indoor Air Criteria	Residential Groundwater Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to Res Groundwater Volatilization to Indoor Air Criteria
Off-Site	Misc/Perimeter	VOC	1,1-Dichloroethane	75-34-3	T	C	8	1	1.10E-02	1.10E-02	3.65E+00	3.0E-03	3.02E+02	3.6E-05	1.08E+04	1.0E-06	5.40E+03	2.0E-06
Off-Site	Misc/Perimeter	VOC	Methylcyclohexane	108-87-2	T		8	1	5.40E-03	5.40E-03	3.14E+01	1.7E-04	1.84E+03	2.9E-06	4.73E+03	1.1E-06	2.00E+03	2.7E-06
Off-Site	Misc/Perimeter	VOC	Toluene	108-88-3	T	ID	8	1	1.50E-03	1.50E-03	1.00E+00	1.5E-03	2.27E+02	6.6E-06	7.59E+03	2.0E-07	3.79E+03	4.0E-07
On-Site	AOI 5	VOC	1,1-Dichloroethane	75-34-3	T	C	11	1	4.60E-02	4.60E-02	3.65E+00	1.3E-02	3.02E+02	1.5E-04	1.08E+04	4.3E-06	5.40E+03	8.5E-06
On-Site	AOI 5	VOC	1,1-Dichloroethene	75-35-4	T	C	11	1	1.70E-02	1.70E-02	7.00E-03	2.4E+00	1.16E+02	1.5E-04	1.25E+03	1.4E-05	5.96E+02	2.9E-05
On-Site	AOI 5	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	11	6	7.00E-03	2.60E-01	7.00E-02	3.7E+00	2.13E+01	1.2E-02	9.87E+02	2.6E-04	4.99E+02	5.2E-04
On-Site	AOI 5	VOC	trans-1,2-Dichloroethene	156-60-5	T		11	1	1.70E-02	1.70E-02	1.00E-01	1.7E-01	4.14E+01	4.1E-04	8.21E+02	2.1E-05	4.05E+02	4.2E-05
On-Site	AOI 5	VOC	1,1,1-Trichloroethane	71-55-6	T	D	11	3	5.40E-03	1.20E-02	2.00E-01	6.0E-02	1.38E+03	8.7E-06	1.99E+04	6.0E-07	9.55E+03	1.3E-06
On-Site	AOI 5	VOC	Trichloroethene	79-01-6	T	C-B2	11	10	6.00E-03	1.80E+00	5.00E-03	3.6E+02	2.52E+01	7.2E-02	2.19E+02	8.2E-03	8.94E+01	2.0E-02
On-Site	AOI 5	VOC	1,2,4-Trimethylbenzene	95-63-6	T	ID	11	1	5.20E-03	5.20E-03	1.83E+00	2.8E-03	4.13E+00	1.3E-03				
On-Site	AOI 5	VOC	Vinyl Chloride	75-01-4	T	A	11	1	2.30E-03	2.30E-03	2.00E-03	1.2E+00	1.95E+00	1.2E-03	1.80E+01	1.3E-04	7.26E+00	3.2E-04
On-Site	AOI 5	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	5	1	2.10E-02	2.10E-02	6.00E-03	3.5E+00	9.08E-01	2.3E-02	5.66E+05	3.7E-08	1.87E+05	1.1E-07
On-Site	AOI 5	SVOC	Naphthalene	91-20-3	T	C	16	1	1.70E-02	1.70E-02	7.30E-01	2.3E-02	2.57E+00	6.6E-03	6.25E+02	2.7E-05	3.25E+02	5.2E-05
On-Site	AOI 5	INORG	Barium	7440-39-3	T	D	5	5	1.03E-01	2.98E-01	2.00E+00	1.5E-01	3.43E+03	8.7E-05				
On-Site	AOI 5	INORG	Chromium (total)	7440-47-3	T		5	1	5.81E-02	5.81E-02	1.00E-01	5.8E-01	2.85E+01	2.0E-03				
On-Site	AOI 6	VOC	1,1-Dichloroethane	75-34-3	T	C	5	2	5.80E-03	8.90E-03	3.65E+00	2.4E-03	3.02E+02	2.9E-05	1.08E+04	8.3E-07	5.40E+03	1.6E-06
On-Site	AOI 6	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	5	3	1.10E-02	8.70E-02	7.00E-02	1.2E+00	2.13E+01	4.1E-03	9.87E+02	8.8E-05	4.99E+02	1.7E-04
On-Site	AOI 6	VOC	Tetrachloroethene	127-18-4	T	C-B2	5	4	9.30E-03	4.30E-01	5.00E-03	8.6E+01	1.33E+01	3.2E-02	8.14E+01	5.3E-03	3.23E+01	1.3E-02
On-Site	AOI 6	VOC	1,1,1-Trichloroethane	71-55-6	T	D	5	3	5.10E-03	2.20E-01	2.00E-01	1.1E+00	1.38E+03	1.6E-04	1.99E+04	1.1E-05	9.55E+03	2.3E-05
On-Site	AOI 6	VOC	Trichloroethene	79-01-6	T	C-B2	5	4	7.40E-03	3.60E-01	5.00E-03	7.2E+01	2.52E+01	1.4E-02	2.19E+02	1.6E-03	8.94E+01	4.0E-03
On-Site	AOI 6	VOC	Vinyl Chloride	75-01-4	T	A	5	2	8.80E-03	2.10E-02	2.00E-03	1.1E+01	1.95E+00	1.1E-02	1.80E+01	1.2E-03	7.26E+00	2.9E-03
On-Site	AOI 6	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	3	2	3.20E-02	1.50E-01	6.00E-03	2.5E+01	9.08E-01	1.7E-01	5.66E+05	2.7E-07	1.87E+05	8.0E-07
On-Site	AOI 6	INORG	Barium	7440-39-3	T	D	5	3	1.53E-01	3.44E-01	2.00E+00	1.7E-01	3.43E+03	1.0E-04				
On-Site	AOI 6	INORG	Chromium (total)	7440-47-3	T		5	3	9.68E-02	2.96E-01	1.00E-01	3.0E+00	2.85E+01	1.0E-02				
On-Site	AOI 6	INORG	Cyanide (total)	57-12-5	T	D	5	3	3.80E-02	1.60E-01	2.00E-01	8.0E-01	6.16E+03	2.6E-05				
On-Site	AOI 7	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	5	3	1.10E-02	2.30E-02	7.00E-02	3.3E-01	2.13E+01	1.1E-03	9.87E+02	2.3E-05	4.99E+02	4.6E-05
On-Site	AOI 7	VOC	trans-1,2-Dichloroethene	156-60-5	T		5	2	3.70E-03	6.90E-03	1.00E-01	6.9E-02	4.14E+01	1.7E-04	8.21E+02	8.4E-06	4.05E+02	1.7E-05
On-Site	AOI 7	VOC	Trichloroethene	79-01-6	T	C-B2	5	4	1.10E-02	1.30E+00	5.00E-03	2.6E+02	2.52E+01	5.2E-02	2.19E+02	5.9E-03	8.94E+01	1.5E-02
Notes:																		
The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																		
Only detected constituents are shown.																		
Chem Group - Chemical Group																		
Meas Basis - Measured Basis; T = Total, D = Dissolved																		
Carc Class - EPA Weight-of-Evidence Cancer Classification																		
Screening criteria are shown at a target risk of 10 -5 and a hazard quotient of 1.																		

Area of Interest

Pre-RFI Soil Boring

Pre-RFI Monitoring Well

RFI Monitoring Well

RFI Soil Boring

Proposed Monitoring Well

Proposed Soil Boring

PRELIMINARY ESTIMATE OF AREA
WITH SOIL CONTAINING TCE
EXCEEDING SCREENING CRITERIA

AOI 5 

GP-6 

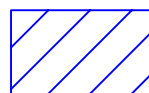
MW-0101-S1U 

MW-0501-S1 

SB-0501 

MW-0601-2U 

SB-0602 



"S" denotes continuous saturated sand unit.

"P" denotes perched saturated sand unit

"I" denotes intermediate saturated sand unit.

Suffix "U" denotes well screened in upper portion of aquifer.

		Sample Date			
Sample Identification	SB-8	3/18/1997 mg/kg 10-12(ft) Soil	3/18/1997 mg/kg 16-18(ft) Soil	Sample Identification	
Analytical Group	VOC			Units	
Analyte	Benzene	1.6	ND (0.01)	Sample Interval	
	Carbon tetrachloride	2.7	ND (0.01)	Matrix	
	Chloroform (Trichloromethane)	0.34 J	ND (0.01)	Analytical Result	
	1,1-Dichloroethene	ND (1.1)	ND (0.01)		
	cis-1,2-Dichloroethene	NS	NS		
	Tetrachloroethene	ND (1.1)	0.001 J		
	1,1,1-Trichloroethane	ND (1.1)	ND (0.01)		
	Trichloroethene	34	0.002 J	Analytical Result Exceeding Screening Criteria	
	Vinyl chloride	ND (1.1)	ND (0.01)		
	SVOC				
	Benzo(a)pyrene	ND (0.33)	NS		
	bis(2-Ethylhexyl)phthalate	0.031 J	ND (0.33)		
	PCB				
	Total PCBs	ND (0.33) U	ND (0.33) U		
	INORG				
	Aluminum	4800	1900		
	Arsenic	4	2.5		
	Cadmium	0.17	0.095		
	Chromium Total	8.9	4.1		
	Iron	10000	9500		
	Lead	5.8	4.3		
	Manganese	220	320		
	Vanadium	14	6.8		

U - Compound was analyzed for but not detected

NS - Sample was not analyzed for analyte

J - Estimated Value

ND - Not Detected

GENERAL MOTORS CORPORATION
FORMER GM DELCO PLANT 5

LEGEND

KOKOMO, INDIANA

Area Manager

S. GLENN

Project Director

S. FISHER

Task Manager

M. FISHERKELLER

Technical Review

J. COSGROVE



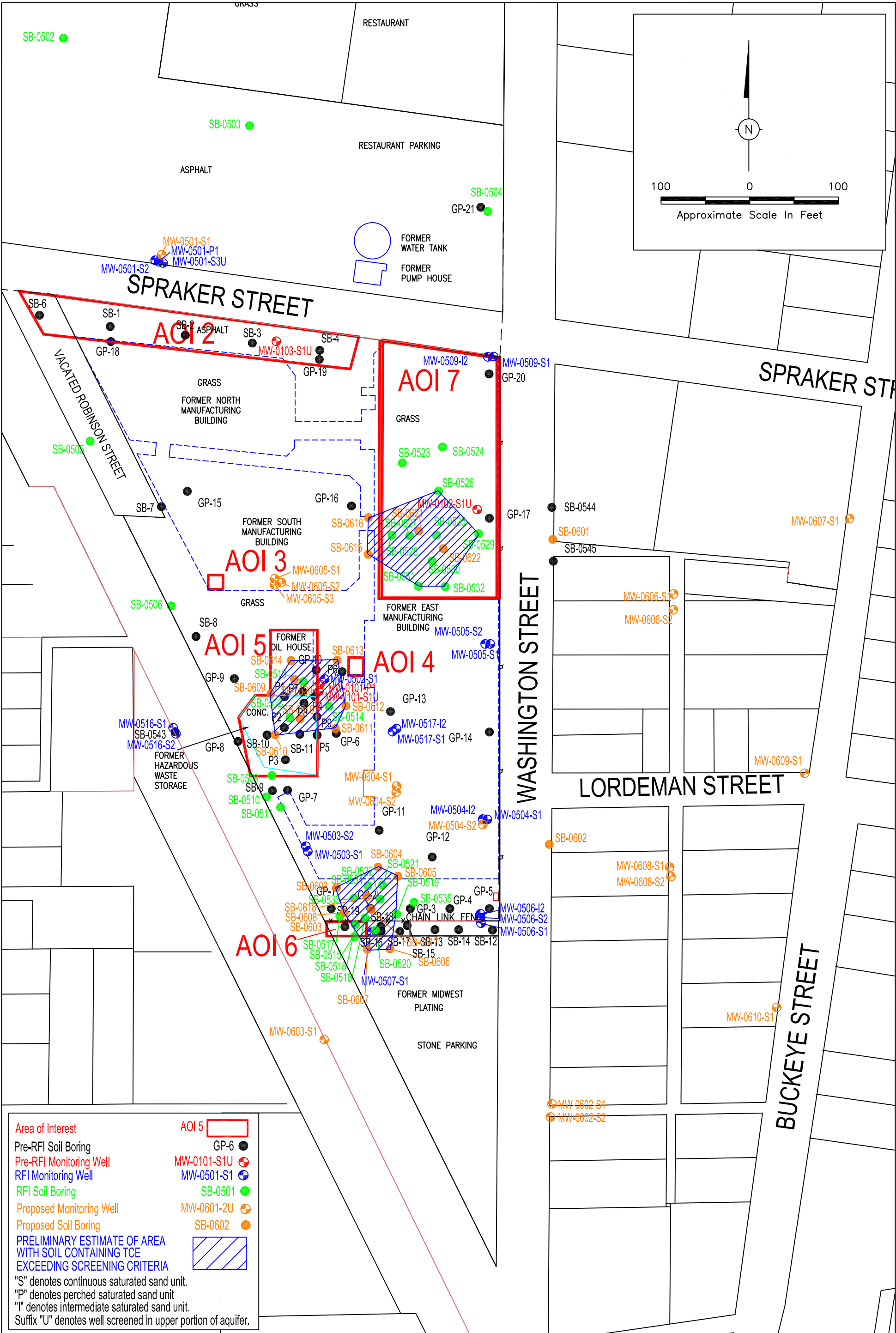
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

Project Number

IN000743.0001

Drawing Date

1/2006



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	S. GLENN
	Project Director
	S. FISHER
	Task Manager
	M. FISHERKELLER
	Technical Review
	J. COSGROVE



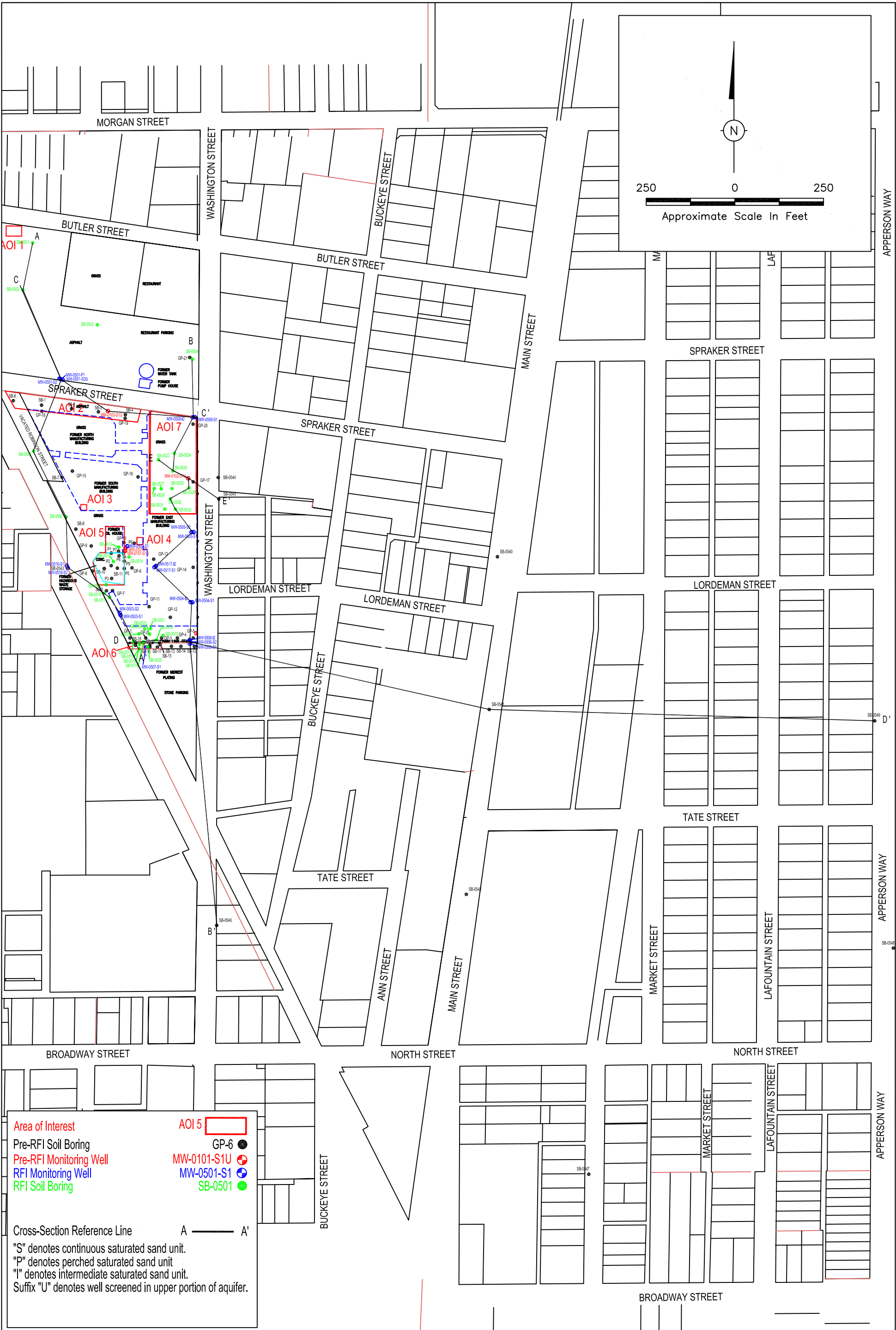
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GENERAL MOTORS CORPORATION
FORMER GM DELCO PLANT 5

PROPOSED SOIL BORINGS AND MONITORING WELLS

KOKOMO, INDIANA

Project Number
IN000743.0001
Drawing Date
1/2006
Drawing
1



Area of Interest

Pre-RFI Soil Boring

Pre-RFI Monitoring Well

RFI Monitoring Well

RFI Soil Boring

AOI 5

GP-6

MW-0101-S1U

MW-0501-S1

SB-0501

Cross-Section Reference Line

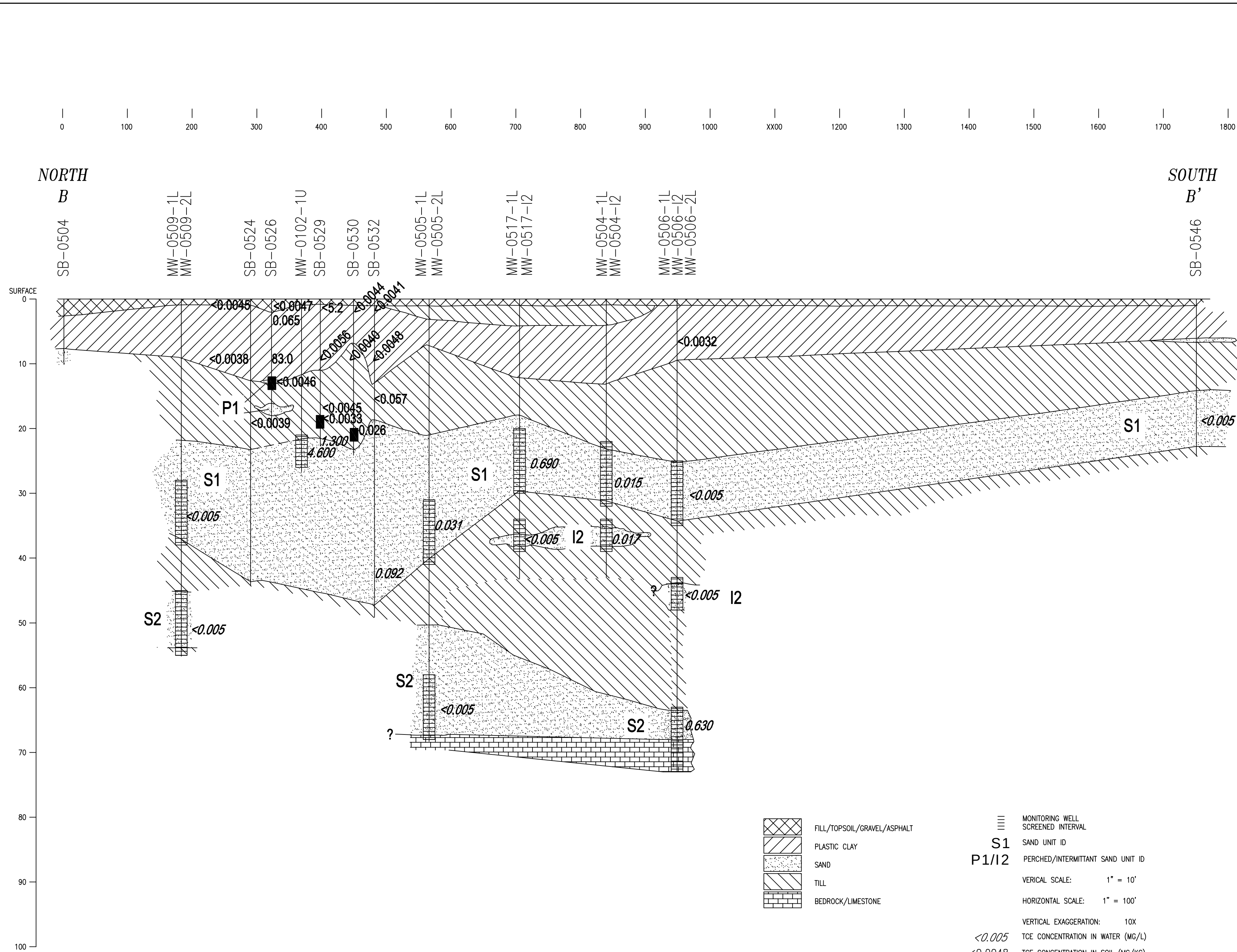
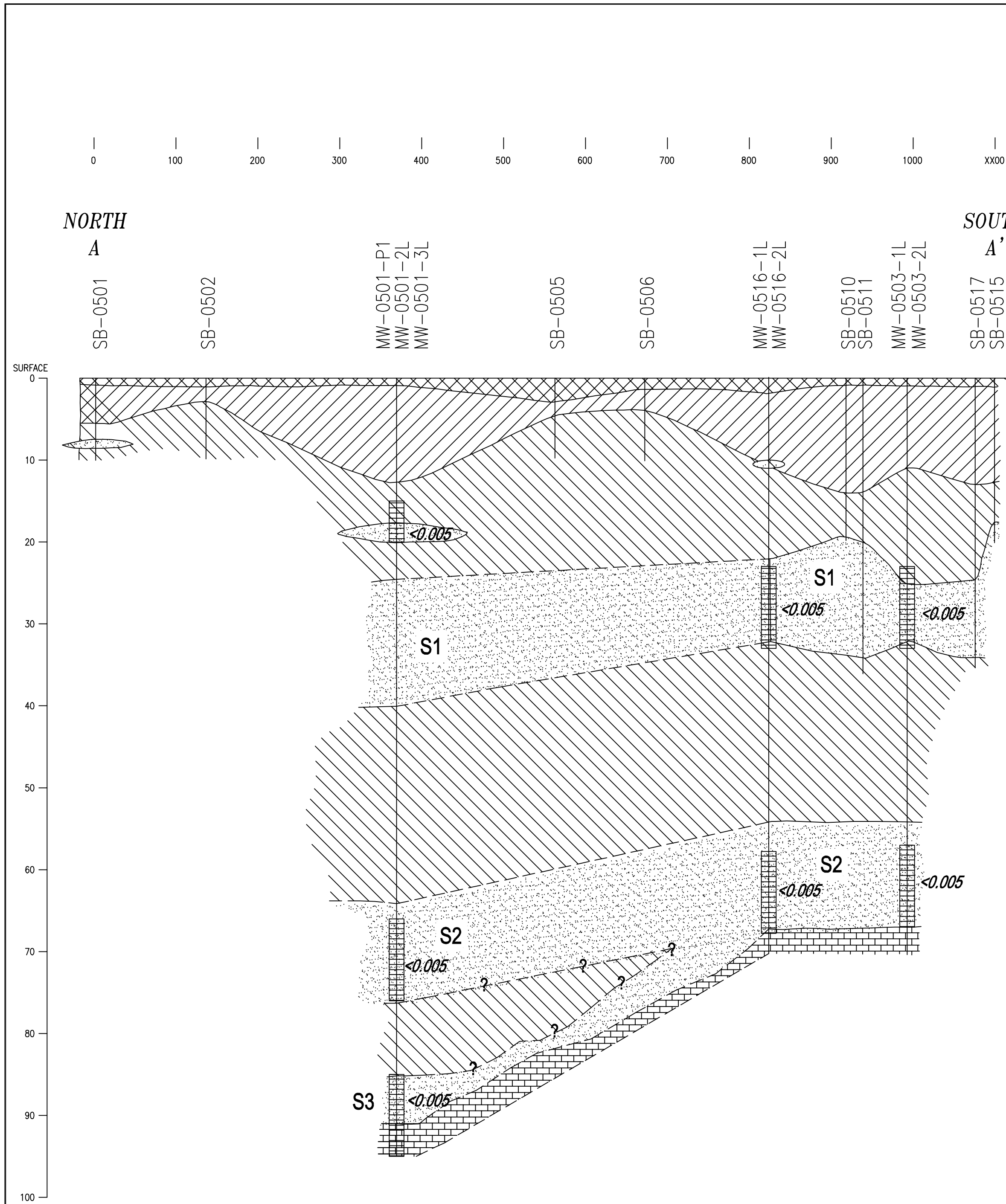
"S" denotes continuous saturated sand unit.

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"I" denotes intermediate saturated sand unit.

Suffix "U" denotes well screened in upper portion of aquifer.

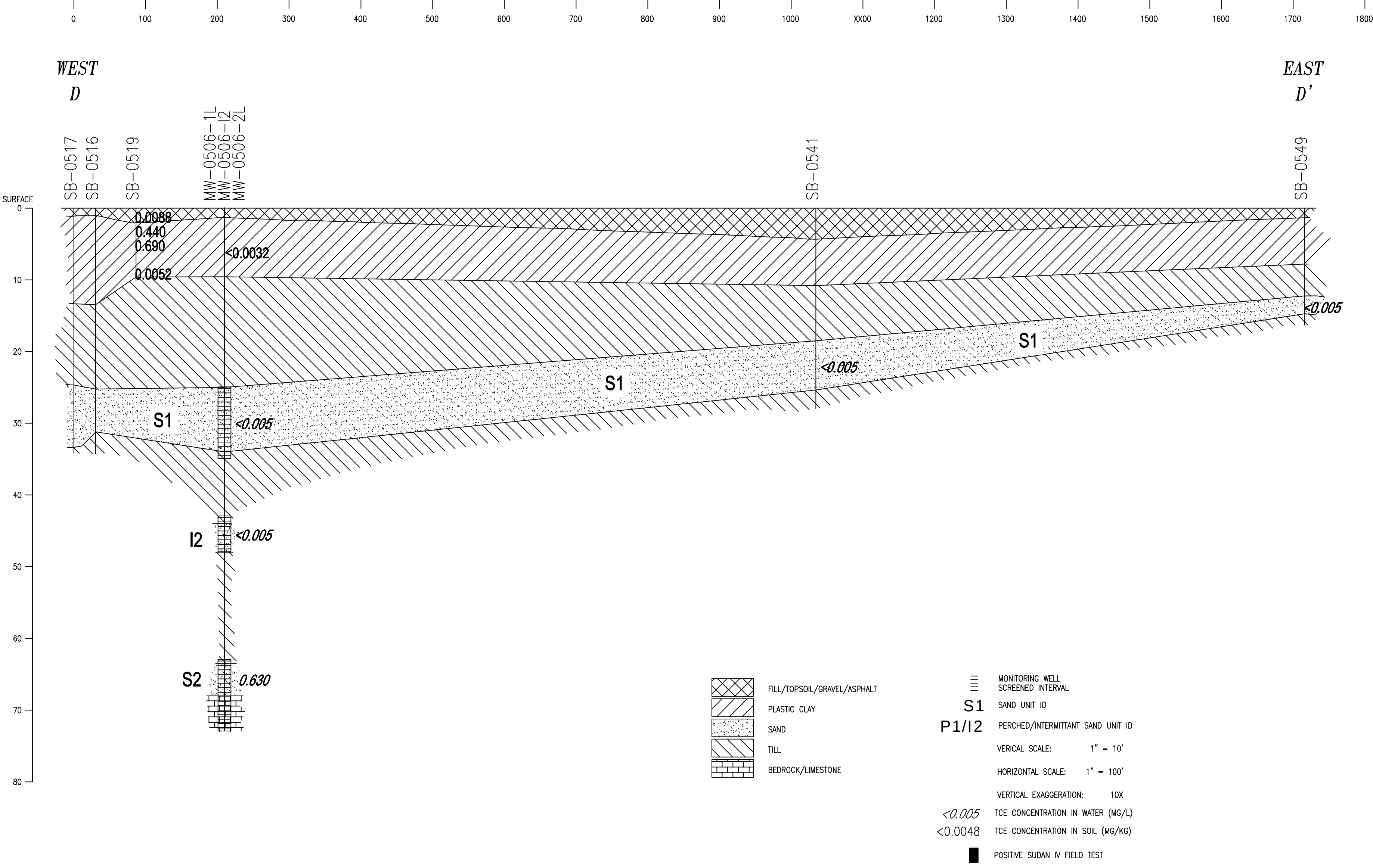
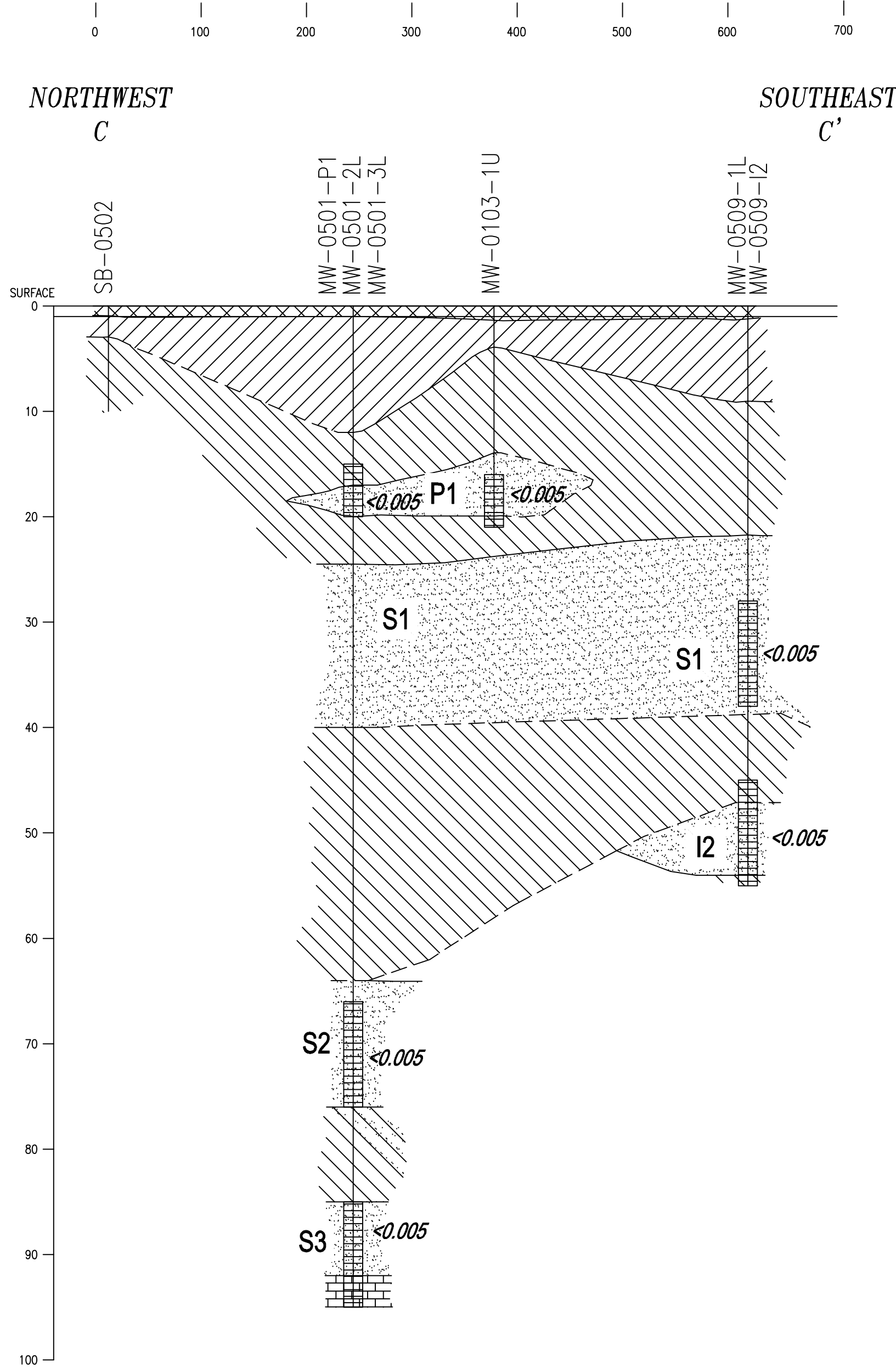
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Area Manager	S. GLENN
Project Director	S. FISHER
Task Manager	M. FISHERKELLER
Technical Review	J. COSGROVE



FILL/TOPSOIL/GRAVEL/ASPHALT

PLASTIC CLAY

SAND

TILL

BEDROCK/LIMESTONE

MONITORING WELL

SCREENED INTERVAL

SAND UNIT ID

PERCHED/INTERMITTANT SAND UNIT ID

VERTICAL SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 100'

VERTICAL EXAGGERATION: 10X

<0.005 TCE CONCENTRATION IN WATER (MG/L)

<0.0048 TCE CONCENTRATION IN SOIL (MG/KG)

■ POSITIVE SUDAN IV FIELD TEST

GENERAL MOTORS
FORMER GM DELCO PLANT 5

CROSS-SECTION C-C' & D-D'

KOKOMO, INDIANA

Project Number	IN000743
Date	12 DEC 2005
Drawing	4

Date/Time : Thu, 12 Jan 2006 - 10:59am
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Acad Version : R16.0
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Area Manager	S. GLENN
Project Director	S. FISHER
Task Manager	M. FISHERKELLER
Technical Review	J. COSGROVE



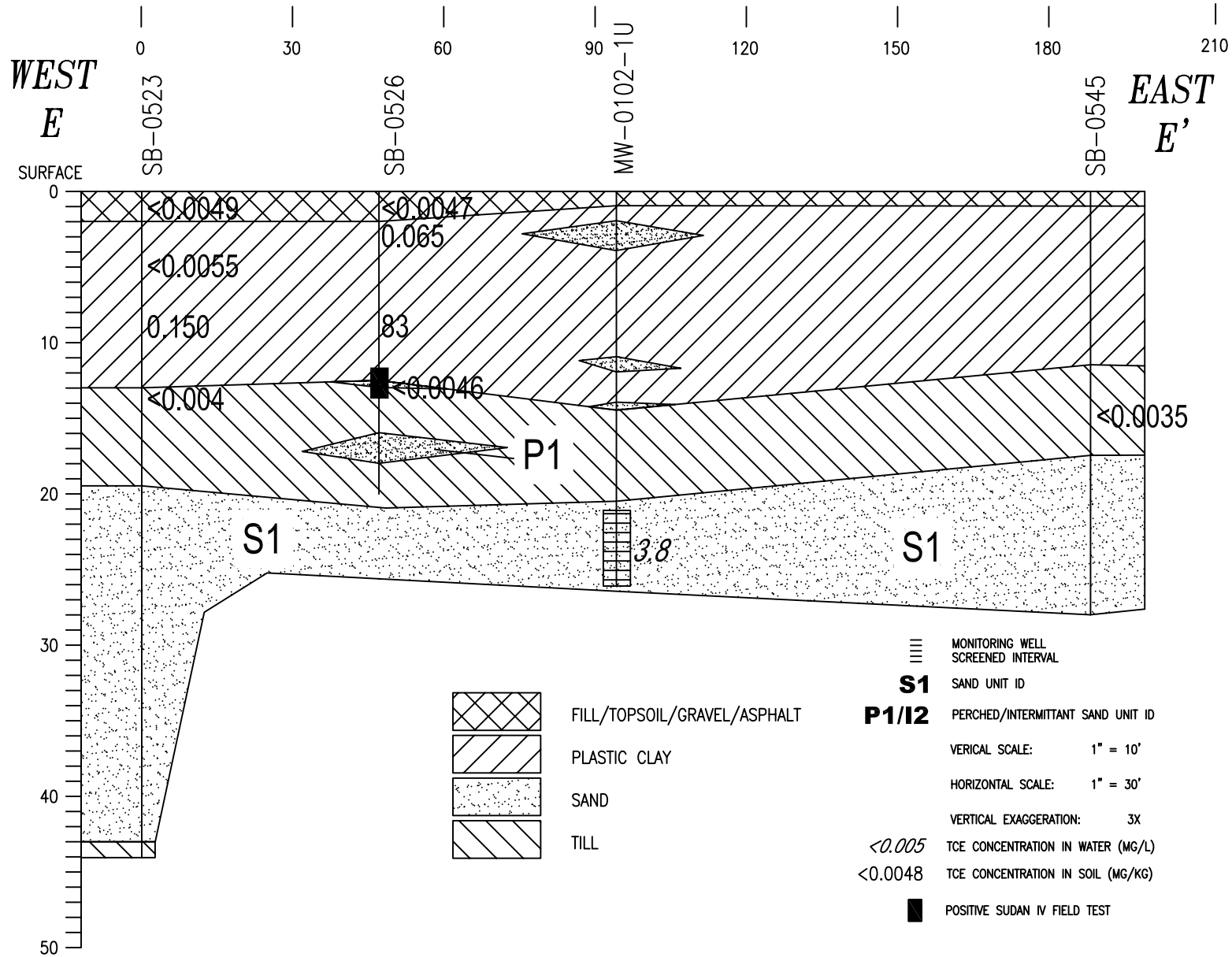
251 East Ohio Street
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 Indianapolis, Indiana 46204
 Tel: 317.231.6500 Fax: 317.231.6514
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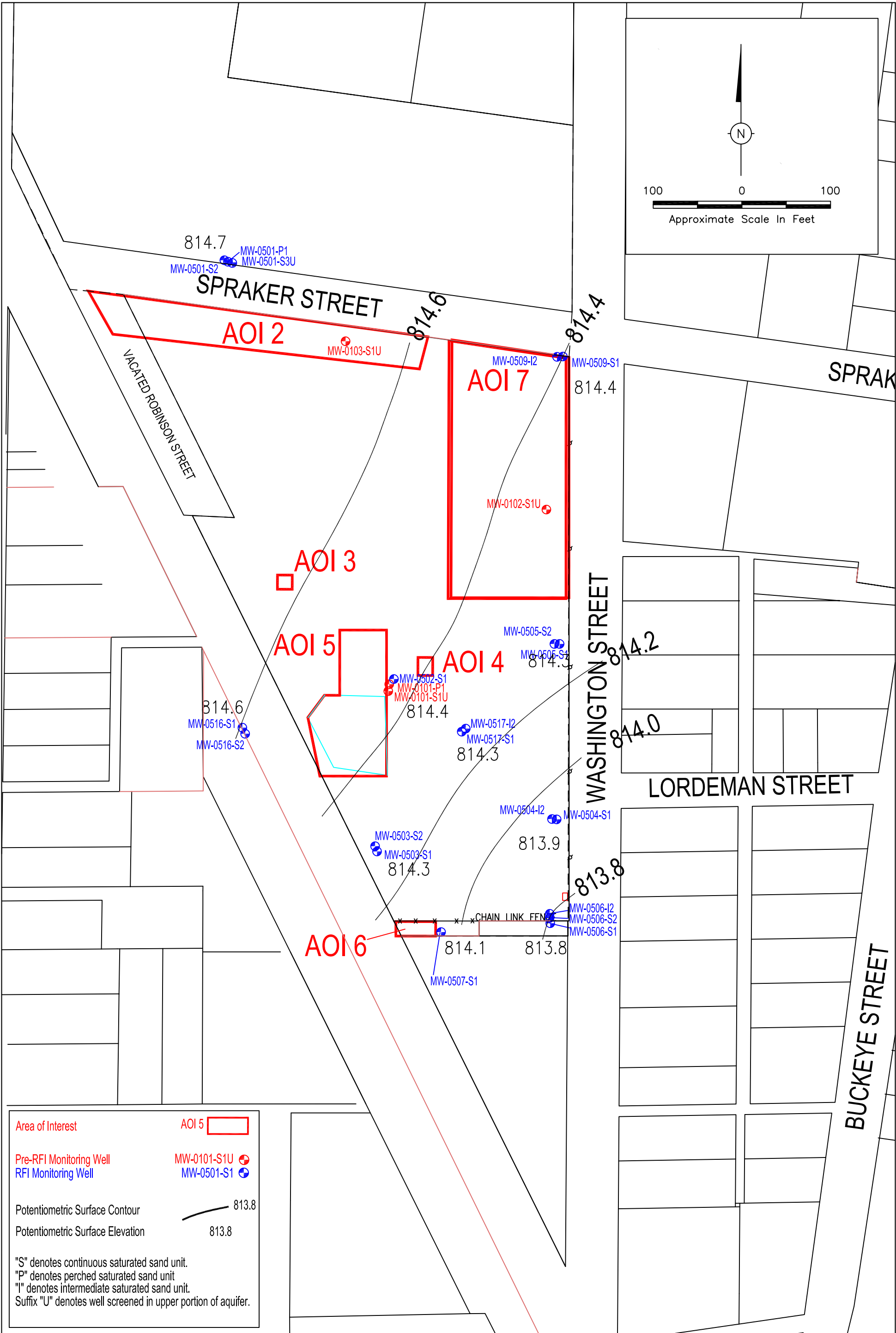
GENERAL MOTORS
 FORMER GM DELCO PLANT 5

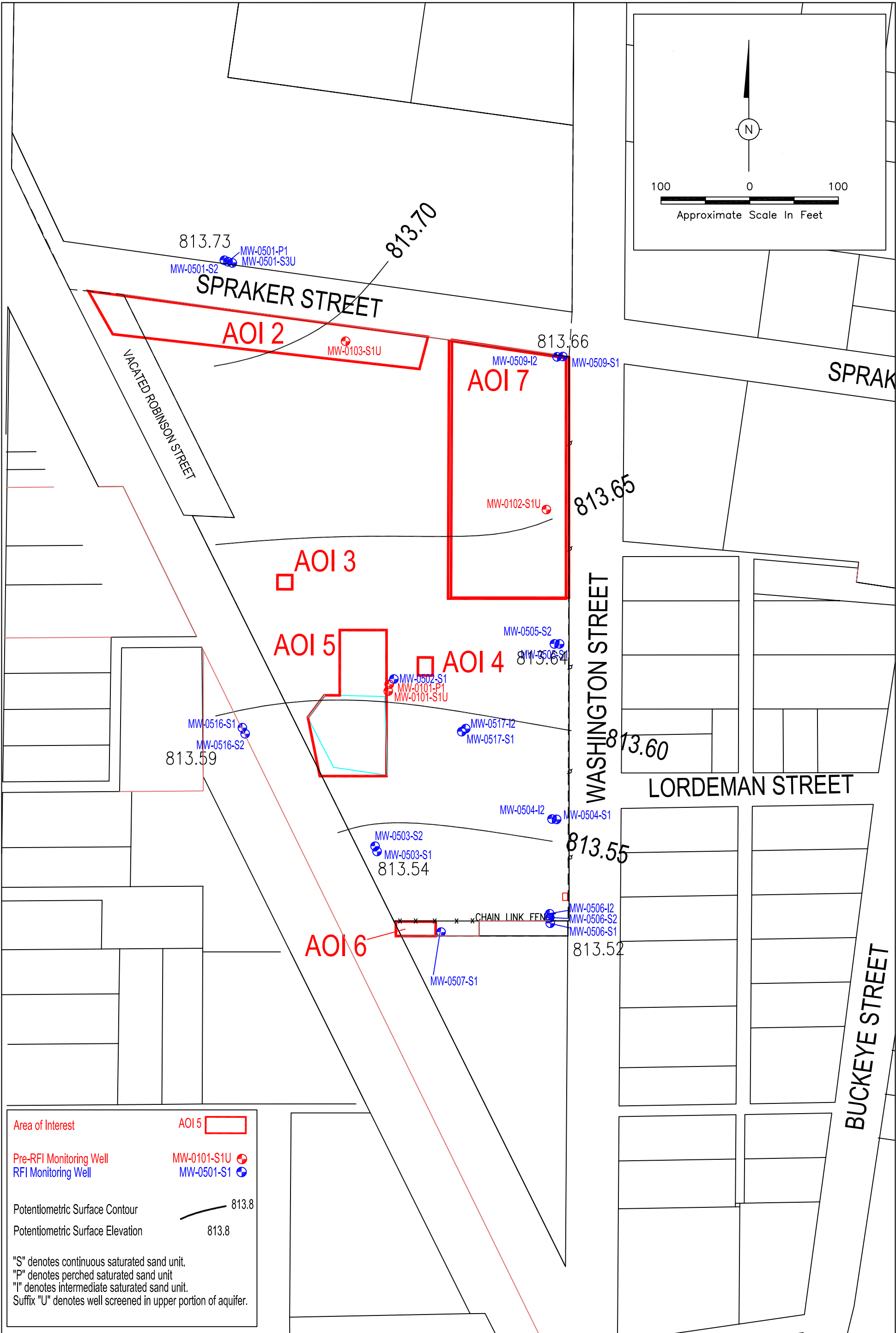
CROSS-SECTION E TO E'

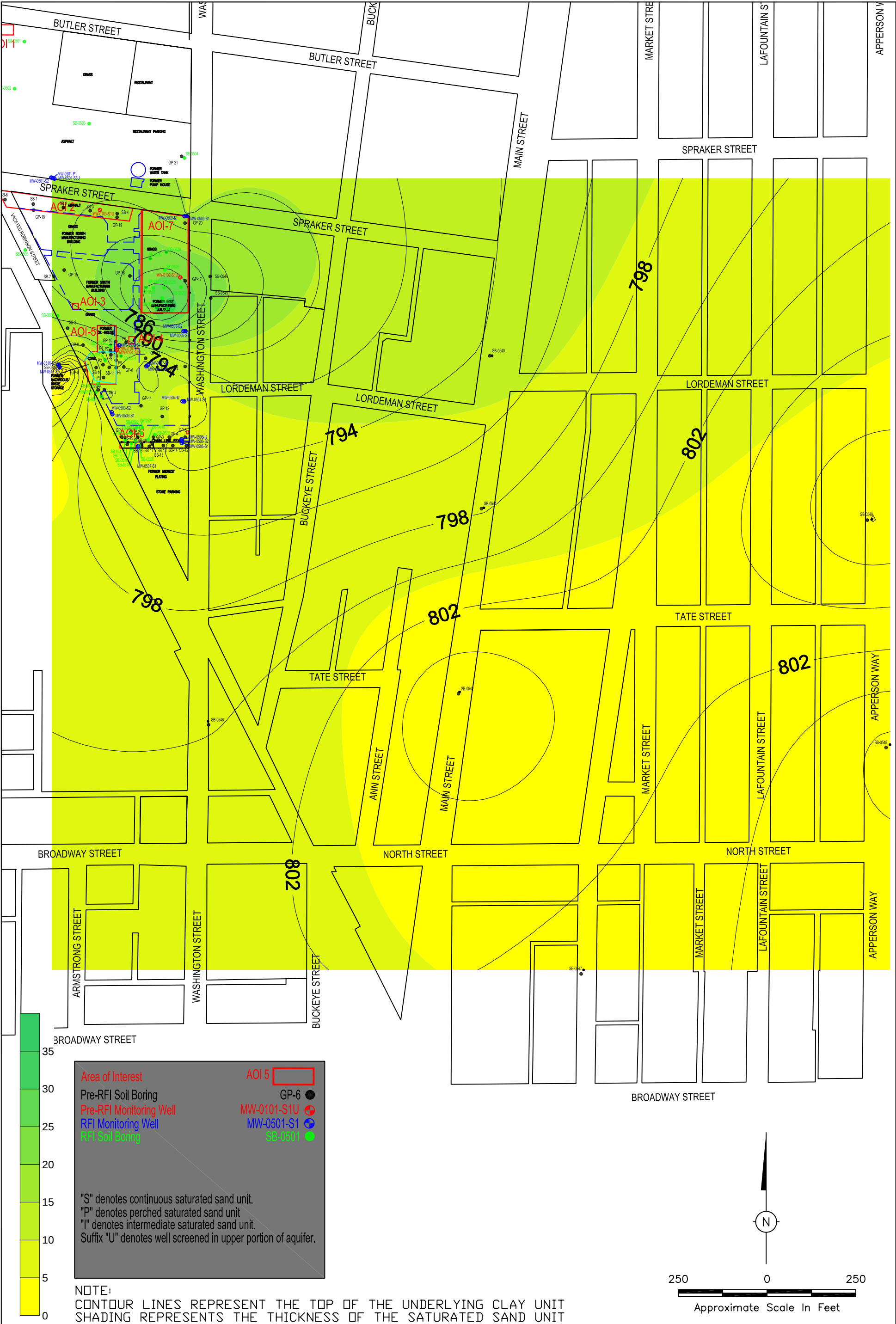
KOKOMO, INDIANA

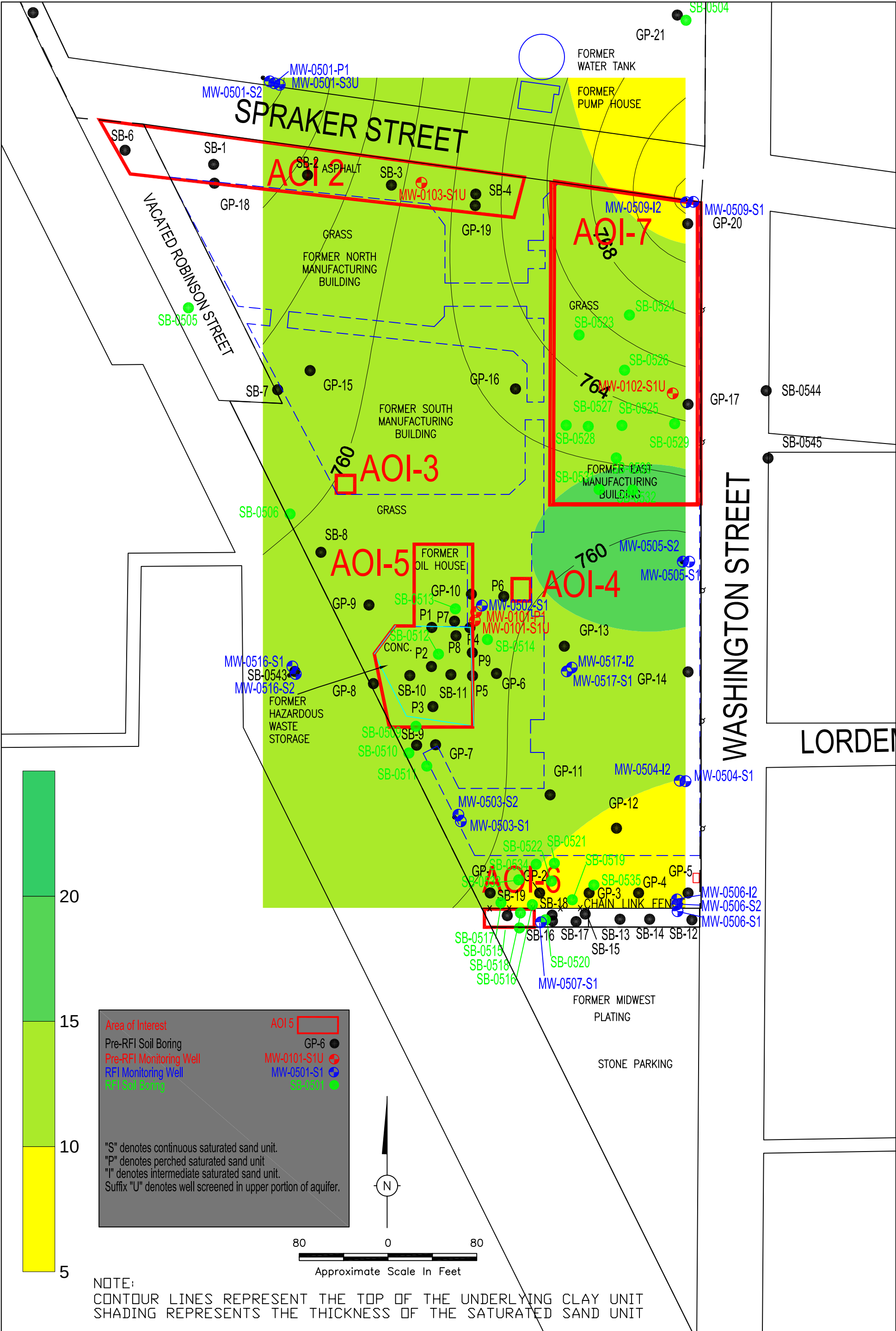
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Drawing Date	3 JAN 2006
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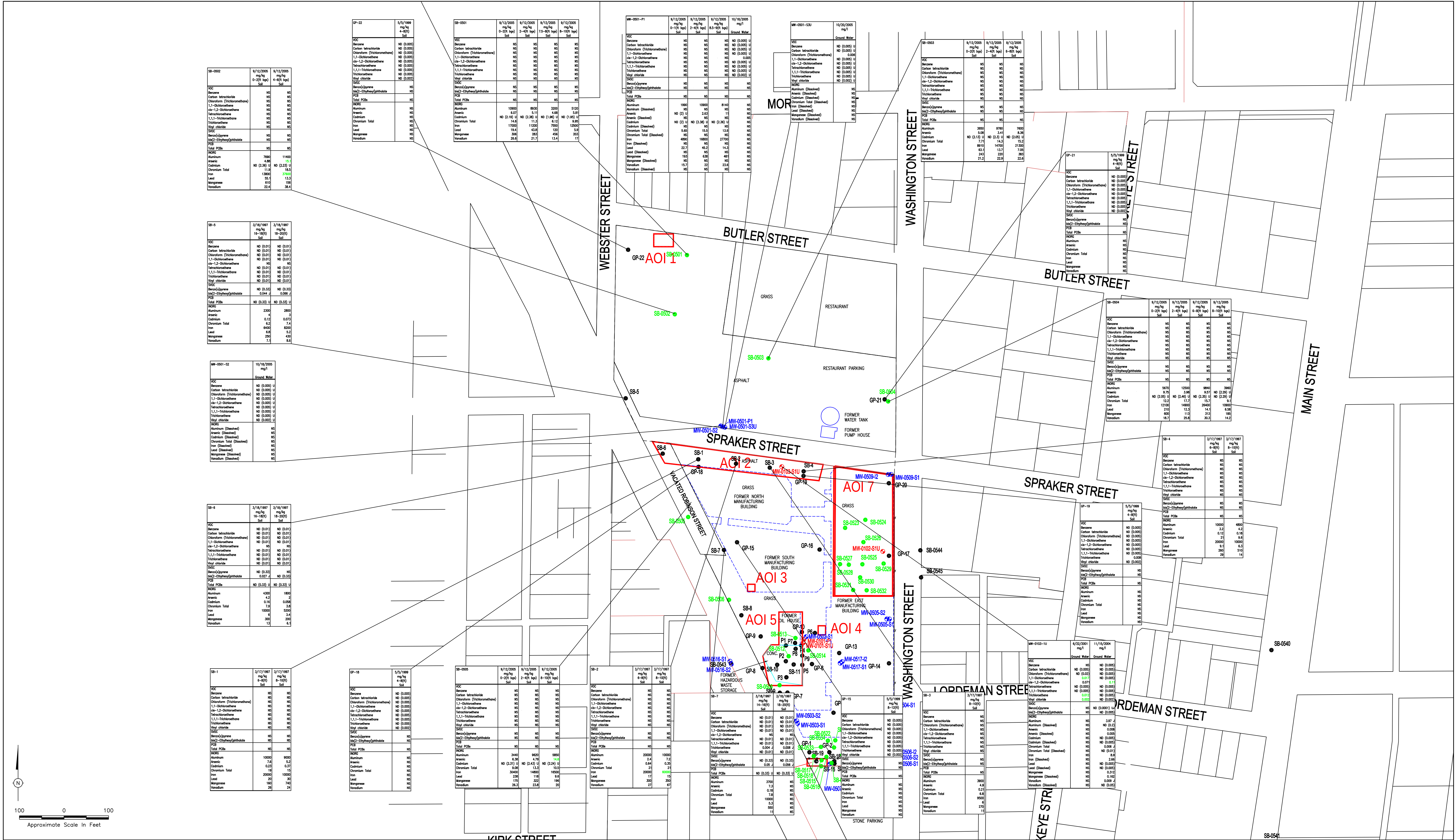










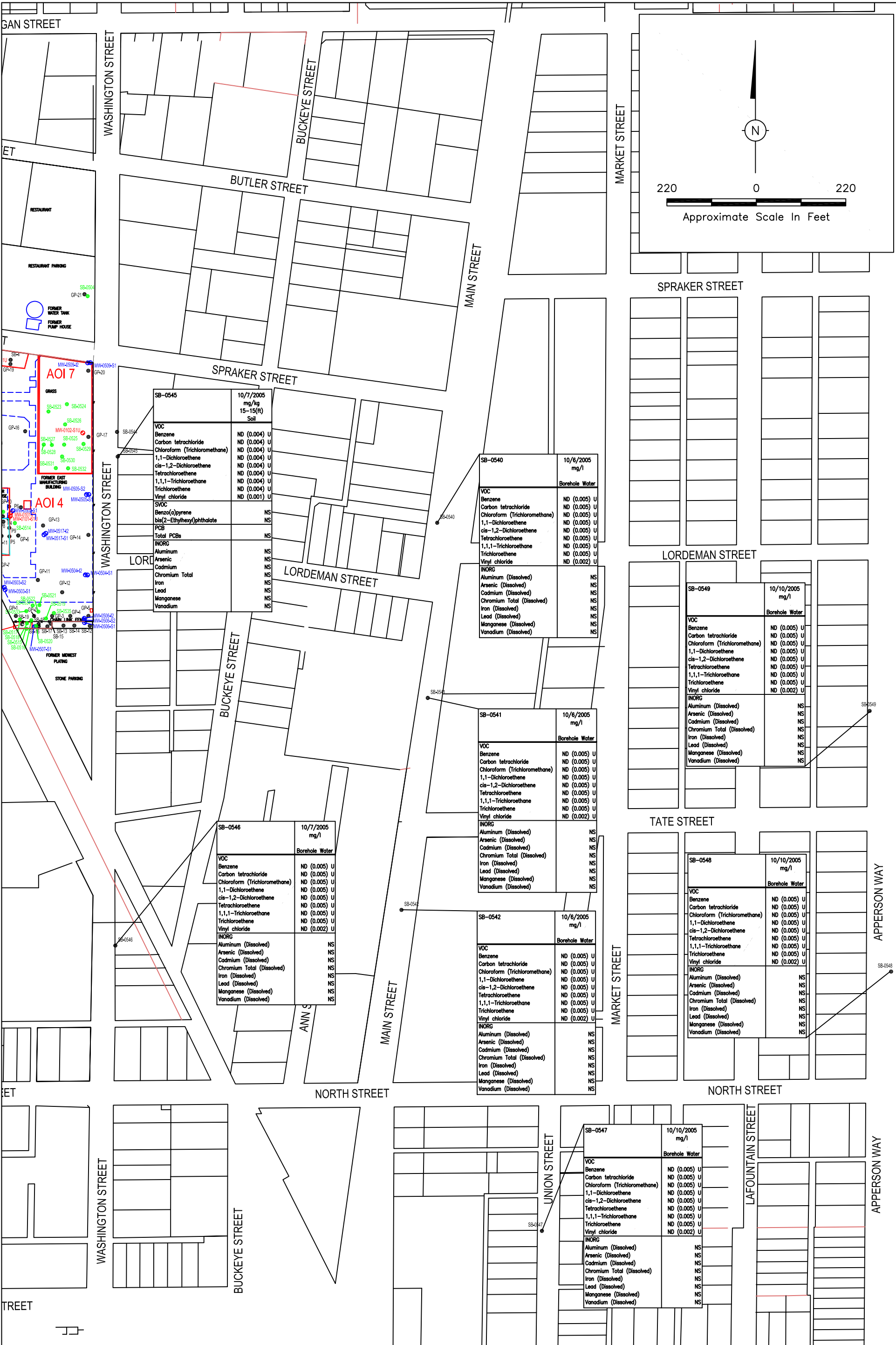


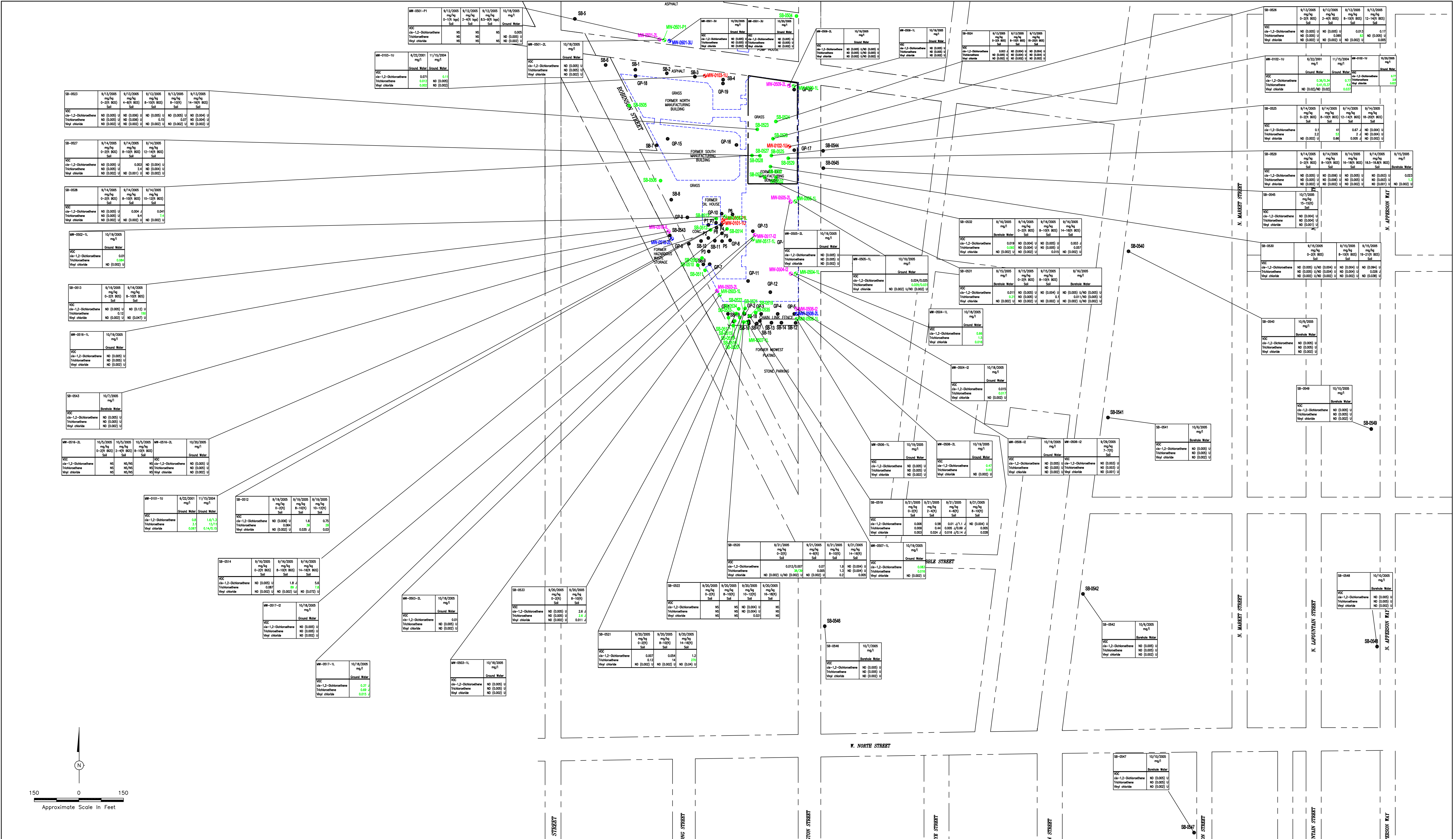
Approximate Scale In Feet			VENUE 7 (Revised)			KS	KS	KS				
© 2008 ARCADIS G&M, Inc.	Area Manager	 251 East Ohio Street Suite 800 Indianapolis, Indiana 46204 Tel: 317.231.8500 Fax: 317.231.8514 www.arcadis-us.com							TATE STREET			Project Number
	S. GLENN								GENERAL MOTORS CORPORATION			IN000743.0001
	Project Director								FORMER GM DELCO PLANT 5			Date
	S. FISHER								ANALYTICAL RESULTS			1/2006
	Task Manager								AOI 5			Drawing
M. FISHERKELLER								KOKOMO, INDIANA			10	
Technical Review												
J. COSGROVE												

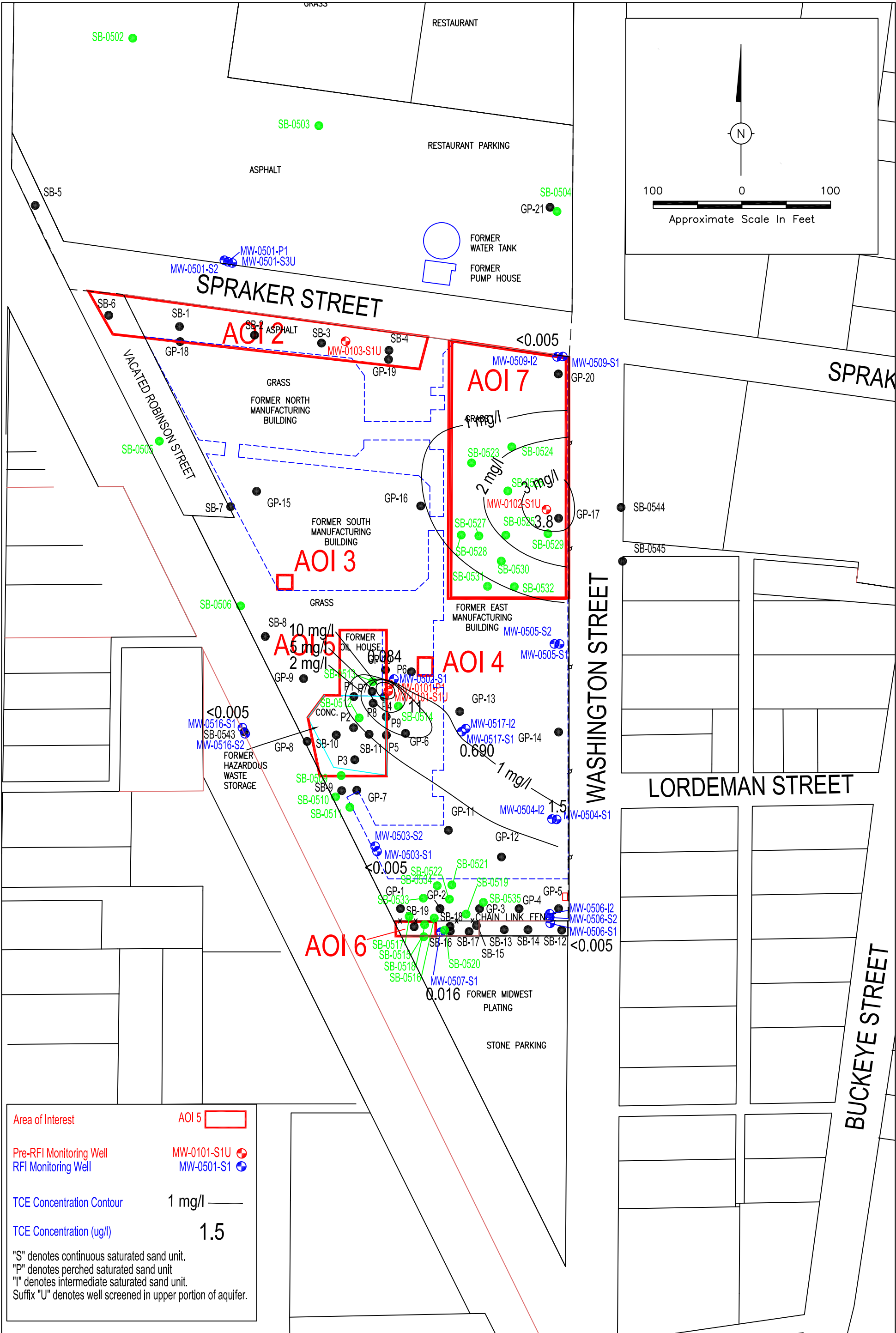












Area of Interest

AOI 5

Pre-RFI Monitoring Well

RFI Monitoring Well

TCE Concentration Contour

TCE Concentration (ug/l)

"S" denotes continuous saturated sand unit.

"P" denotes perched saturated sand unit

"I" denotes intermediate saturated sand unit.

Suffix "U" denotes well screened in upper portion of aquifer.

Appendix A

Monitoring Well Construction
Diagrams and Soil Boring Logs



WELL CONSTRUCTION LOG

WELL NO.: **MW-0501-P1**

TOTAL DEPTH: **20.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **9/13/2005**
 DATE COMPLETED: **9/13/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Randy Radke**
 DRILLING METHOD: **Hollow Stem Auger**
COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
-------	--------------	------------------	-----------	-----------	---------------------------

0		ASPHALT: Asphalt	MW-0501-1L-01	0.0	Flush Mount PVC sch 40 bentonite-pellets
		CLAY: Black Silty Sandy Clay, very plastic, cohesive, sticky, moist, soft, olive mottling	MW-0501-1L-02	5.9	
			MW-0501-1L-03	11.2	
5		CLAY: Lt. Olive gray silty sandy Clay, very plastic, cohesive, sticky, moist, soft, rust colored mottling	MW-0501-1L-04	16.4	
		SAND: Dark yellowish brown clayey Sand, slightly plastic, slightly cohesive, non-sticky, wet	MW-0501-1L-05	32.5	
10		CLAY: Lt. Olive gray silty sandy Clay, plastic, cohesive, sticky, moist, soft, rust colored mottling, increased sand content	MW-0501-1L-06	47.8	
		SAND: Dark Yellowish brown fine to med. Sand, wet, poorly graded, sub-rounded	MW-0501-1L-07	19.1	
		CLAY: Dark yellowish brown silty Clay, slightly plastic, cohesive, non-sticky, slightly moist, firm, trace gravel, color change to Gray @ 14.5	MW-0501-1L-08	20.5	
15			MW-0501-1L-09	27.2	
		SAND: Gray med. to coarse Sand & Gravel, wet, sub-rounded, poorly graded	MW-0501-1L-10	31.6	
20		CLAY: Gray silty Clay, non-plastic, cohesive, non-sticky, sl. moist, trace gravel			sand pack PVC sch 40



WELL CONSTRUCTION LOG

WELL NO.: MW-0501-2L

TOTAL DEPTH: 76.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
SITE LOCATION: Kokomo, IN
LOGGED BY: Tim Yates
DATE STARTED: 9/29/2005
DATE COMPLETED: 9/29/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Roto-Sonic
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		ASPHALT: Asphalt/Fill	MW-0501-2U-01	0.0	Flushmount PVC sch 40 bent-cement grout
			MW-0501-2U-02	0.7	
5		CLAY: Black silty sandy CLAY, very plastic, cohesive, sticky moist	MW-0501-2U-03	1.2	
			MW-0501-2U-04	2.3	
10		CLAY: Dark yellowish brown, silty sandy CLAY, plastic, cohesive, sticky, moist, olive mottling, trace gravel	MW-0501-2U-05	1.6	
			MW-0501-2U-06	2.8	
15		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, firm, trace gravel	MW-0501-2U-07	0.1	
			MW-0501-2U-08	3.9	
20		BLANK: Blank Drill			sand pack
25					
30					
35					
40					
45					
50					
55					
60					
65					
70					
75					



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0501-3L**

TOTAL DEPTH: **95.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **9/27/2005**
 DATE COMPLETED: **9/28/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Kevin Smith**
 DRILLING METHOD: **Roto-Sonic**
 COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		ASPHALT: Asphalt/Concrete	MW-0501-3U-01	0.0	Flush Mount PVC sch 40 bentonite-pellets
5		CLAY: Black silty sandy CLAY, very plastic, cohesive, sticky, moist	MW-0501-3U-02	0.6	
			MW-0501-3U-03	0.8	
10		CLAY: Dark yellowish brown, silty sandy CLAY, plastic, cohesive, sticky, moist, olive mottling	MW-0501-3U-04	0.0	
			MW-0501-3U-05	1.4	
			MW-0501-3U-06	2.1	
			MW-0501-3U-07	1.1	
			MW-0501-3U-08	0.9	
			MW-0501-3U-09	12.2	
			MW-0501-3U-10	8.7	
20		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, firm, trace gravel	MW-0501-3U-11	5.6	
			MW-0501-3U-12	7.3	
		SAND: Gray med. to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded (water @ 17.5 - 20.0')	MW-0501-3U-13	20.2	
			MW-0501-3U-14	18.6	
			MW-0501-3U-15	17.4	
			MW-0501-3U-16	23.9	
			MW-0501-3U-17	25.5	
			MW-0501-3U-18	21.3	
			MW-0501-3U-19	22.4	
			MW-0501-3U-20	20.7	
			MW-0501-3U-21	5.1	
			MW-0501-3U-22	2.3	
			MW-0501-3U-23	2.8	
			MW-0501-3U-24	3.4	
			MW-0501-3U-25	6.7	
			MW-0501-3U-26	4.2	
			MW-0501-3U-27	3.7	
			MW-0501-3U-28	4.8	
			MW-0501-3U-29	5.9	
			MW-0501-3U-30	2.1	
			MW-0501-3U-31	1.4	sand pack PVC sch 40
			MW-0501-3U-32	2.8	
65		SAND: Gray med. to coarse SAND & GRAVEL, wet, sub-rounded, poorly sorted (water @ 64.0 - 76.0')	MW-0501-3U-33	10.1	
			MW-0501-3U-34	9.7	
			MW-0501-3U-35	11.6	
			MW-0501-3U-36	8.4	
			MW-0501-3U-37	7.6	
			MW-0501-3U-38	12.2	
			MW-0501-3U-39	7.4	
			MW-0501-3U-40	8.9	
			MW-0501-3U-41	5.6	
			MW-0501-3U-42	4.0	
			MW-0501-3U-43	3.7	
			MW-0501-3U-44	2.4	
			MW-0501-3U-45	0.9	
			MW-0501-3U-46	1.2	
			MW-0501-3U-47	3.6	
95		LIMESTONE: Limestone	MW-0501-3U-48	0.0	



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0502-1L**

TOTAL DEPTH: **34.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **9/15/2005**
 DATE COMPLETED: **9/15/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Randy Radke**
 DRILLING METHOD: **Hollow Stem Auger**
 COORDINATES:
Nothing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0502-1L-01	0.0	Flush Mount PVC sch 40 bentonite-pellets
		CLAY: Brown silty sandy Clay, non-plastic, non-cohesive, non-sticky, dry, friable	MW-0502-1L-02	0.5	
5		CLAY: Dark yellowish brown silty, sandy, Clay, plastic, cohesive, sticky, moist, rust-colored mottling	MW-0502-1L-03	1.2	
			MW-0502-1L-04	4.5	
10		SILT: Gray clayey Silt, non-plastic cohesive, non-sticky, moist, very firm, trace gravel	MW-0502-1L-05	10.6	sand pack PVC sch 40
			MW-0502-1L-06	7.8	
			MW-0502-1L-07	9.3	
15		SAND: Gray med. to coarse Sand & Gravel, wet sub-rounded, poorly sorted,	MW-0502-1L-08	4.7	
			MW-0502-1L-09	20.4	
			MW-0502-1L-10	22.7	
20			MW-0502-1L-11	37.6	
			MW-0502-1L-12	18.9	
			MW-0502-1L-13	20.1	
25			MW-0502-1L-14	11.0	
			MW-0502-1L-15	4.2	
30			MW-0502-1L-16	0.8	
		SILT: Gray clayey Silt, non-plastic, cohesive, non-sticky, moist, firm, trace gravel	MW-0502-1L-17	1.3	



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0503-1L**

TOTAL DEPTH: **33.00**

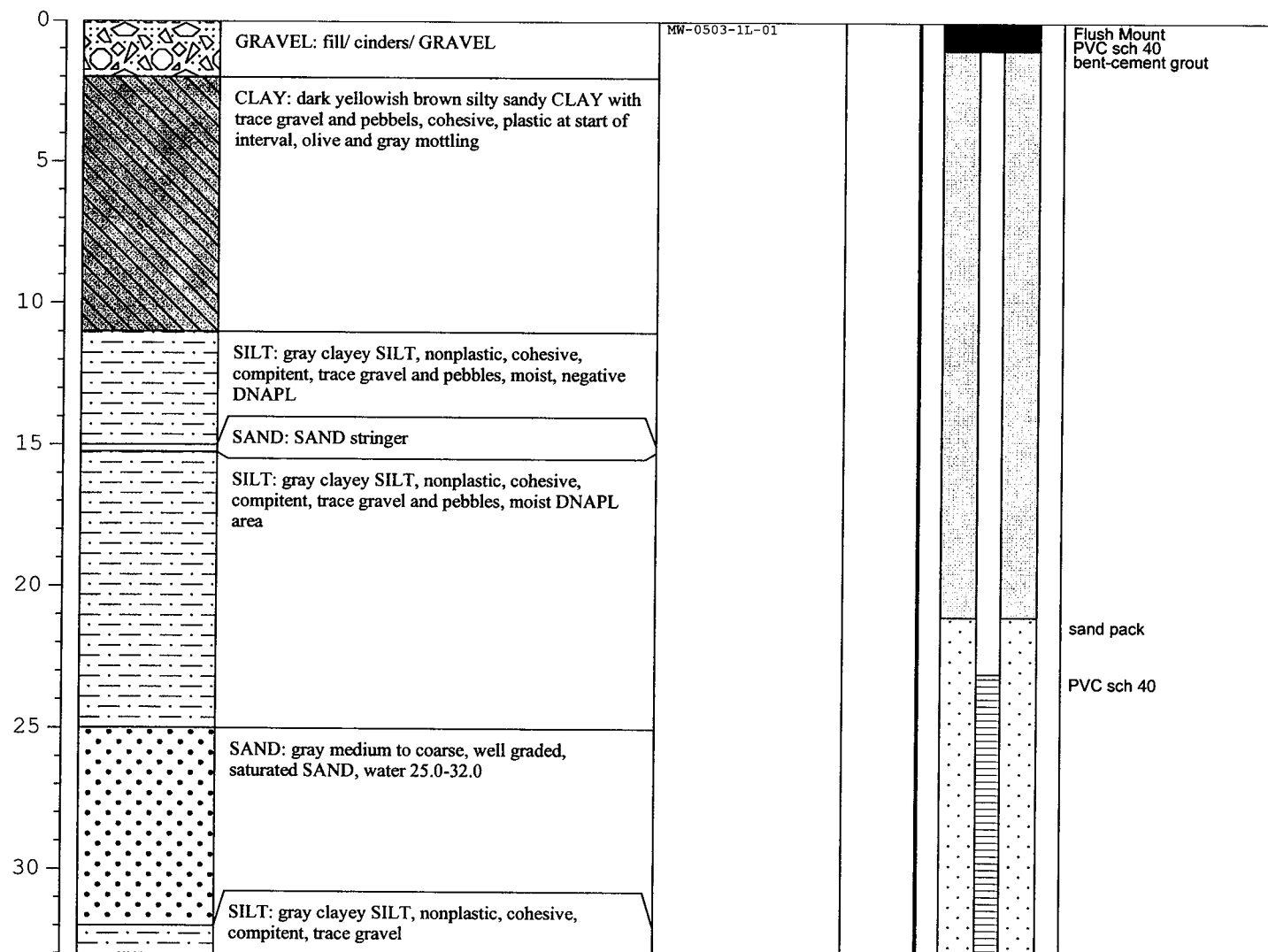
PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, IN**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/10/2005**
DATE COMPLETED: **10/10/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **Kevin Smith**
DRILLING METHOD: **Roto-Sonic**
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
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ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0503-2L**

TOTAL DEPTH: **70.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **M. Griles**
 DATE STARTED: **10/10/2005**
 DATE COMPLETED: **10/10/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Kevin Smith**
 DRILLING METHOD: **Roto-Sonic**
 COORDINATES:

Northing:

Easting:

Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		GRAVEL: fill/cinders/GRAVEL	MW-0503-2L-01	0.2	 Flush Mount PVC sch 40 bent-cement grout
1.4		CLAY: dark yellowish brown silty sandy CLAY with trace gravel and pebbels, cohesive, plastic at start of interval, olive and gray mottling	MW-0503-2L-02	1.4	
2.8			MW-0503-2L-03	2.8	
10.4			MW-0503-2L-04	10.4	
7.8			MW-0503-2L-05	7.8	
4.6		SILT: gray clayey SILT, nonplastic, cohesive, competent, trace gravel and pebbels, negative DNAPL	MW-0503-2L-06	4.6	
3.9			MW-0503-2L-07	3.9	
5.1			MW-0503-2L-08	5.1	
7.2		SAND: SAND stringer	MW-0503-2L-09	7.2	
2.4			MW-0503-2L-10	2.4	
8.3			MW-0503-2L-11	8.3	
12.6			MW-0503-2L-12	12.6	
14.2			MW-0503-2L-13	14.2	
15.6		SAND: gray medium to coarse, well graded, saturated SAND, water 25.0-32.0	MW-0503-2L-14	15.6	
11.9			MW-0503-2L-15	11.9	
12.3			MW-0503-2L-16	12.3	
5.3			MW-0503-2L-17	5.3	
5.4			MW-0503-2L-18	5.4	
6.1			MW-0503-2L-19	6.1	
4.2			MW-0503-2L-20	4.2	
2.1			MW-0503-2L-21	2.1	
2.6			MW-0503-2L-22	2.6	
3.4			MW-0503-2L-23	3.4	
1.9			MW-0503-2L-24	1.9	
8.7			MW-0503-2L-25	8.7	
5.3			MW-0503-2L-26	5.3	
14.6			MW-0503-2L-27	14.6	
21.2			MW-0503-2L-28	21.2	
18.5			MW-0503-2L-29	18.5	
21.0			MW-0503-2L-30	21.0	
23.6			MW-0503-2L-31	23.6	
19.7			MW-0503-2L-32	19.7	
20.9			MW-0503-2L-33	20.9	
21.6			MW-0503-2L-34	21.6	
6.7			MW-0503-2L-35	6.7	
55		PEBBLES: gray, medium to coarse, well graded, rounded PEBBLES and gravel, sand, water @ 54.0-67.0			sand pack PVC sch 40
60					
65					
70		LIMESTONE: LIMESTONE bedrock			



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0504-1L**

TOTAL DEPTH: **32.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, IN**
LOGGED BY: **Tim Yates**
DATE STARTED: **9/14/2005**
DATE COMPLETED: **9/14/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **Randy Radke**
DRILLING METHOD: **Hollow Stem Auger**
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0504-1L-01	0.0	Flush Mount
		CLAY: Brown silty sandy Clay, non-plastic, cohesive, sticky, slightly moist, friable, rust colored mottling	MW-0504-1L-02	0.1	PVC sch 40 bent-cement grout
5		CLAY: Dark yellowish brown, silty, sandy Clay, plastic, cohesive, sticky, moist, gray mottling	MW-0504-1L-03	1.1	
			MW-0504-1L-04	2.0	
		SILT: Dark yellowish brown clayey Silt, non-plastic, cohesive, non-sticky, moist, firm	MW-0504-1L-05	3.7	
10			MW-0504-1L-06	5.1	
		SAND: Dark yellowish brown fine to medium Sand, wet, sub-rounded, poorly graded	MW-0504-1L-07	8.2	
		SILT: Gray clayey Silt, non-plastic, cohesive, non-sticky, moist, trace gravel, firm	MW-0504-1L-08	11.8	
15			MW-0504-1L-09	9.7	
			MW-0504-1L-10	10.6	
20			MW-0504-1L-11	11.4	sand pack
			MW-0504-1L-12	27.6	PVC sch 40
25		SAND: Gray medium to coarse sand & gravel, wet, sub-rounded, poorly graded, water at 23.0-31.0'	MW-0504-1L-13	18.4	
			MW-0504-1L-14	19.7	
			MW-0504-1L-15	25.4	
30			MW-0504-1L-16	13.7	
		SILT: Gray clayey Silt, nonplastic			



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: MW-0504-I2

TOTAL DEPTH: 43.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
SITE LOCATION: Kokomo, IN
LOGGED BY: Tim Yates
DATE STARTED: 10/6/2005
DATE COMPLETED: 10/6/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Roto-Sonic
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: TOPSOIL	MW-0504-2L-01		Flush Mount PVC sch 40 bent-cement grout
5		CLAY: brown silty sandy CLAY, nonplastic, cohesive, sticky, slightly moist, friable, rust colored mottling			
		CLAY: dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, gray mottling			
10		SILT: dark yellowish brown clayey SILT, nonplastic cohesive, nonsticky, moist, firm			
		SAND: dark yellowish brown fine to medium SAND, wet, subrounded, poorly graded			
15		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, firm			
20					
25		SAND: gray medium to coarse SAND and gravel, wet, subrounded, poorly graded, water @ 23.0-31.0'			
30		SILT: gray clayey SILT, nonplastic			
35		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, hard, trace gravel	MW-0504-2L-02	4.3	
			MW-0504-2L-03	12.6	
		SAND: gray medium to coarse SAND and gravel, wet, poorly graded, sub-rounded, water @ 34.5-38.0'	MW-0504-2L-04	14.4	
		SILT: gray clayey SILT, nonplastic, cohesive, non-sticky, moist, hard, trace gravel	MW-0504-2L-05	13.2	
40			MW-0504-2L-06	7.6	
			MW-0504-2L-07	6.2	



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0505-1L**

TOTAL DEPTH: **42.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, IN**
LOGGED BY: **Tim Yates**
DATE STARTED: **9/13/2005**
DATE COMPLETED: **9/13/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **Randy Radke**
DRILLING METHOD: **Hollow Stem Auger**
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0505-1L-01	10.2	Flush Mount PVC sch 40 bentonite-pellets
		CLAY: Brown silty, sandy, Clay, nonplastic, non-cohesive, non-sticky, dry, friable	MW-0505-1L-02	0.8	
		CLAY: light olive gray silty sandy CLAY, plastic, cohesive, sticky, moist, rust-colored mottling	MW-0505-1L-03	2.4	
			MW-0505-1L-04	3.1	
		SILT: Dark yellowish brown, clayey SILT, slightly plastic, cohesive, slightly sticky, moist, trace gravel, rust-colored mottling	MW-0505-1L-05	7.6	
			MW-0505-1L-06	11.9	
			MW-0505-1L-07	5.3	
			MW-0505-1L-08	7.6	
			MW-0505-1L-09	5.9	
			MW-0505-1L-10	14.3	
			MW-0505-1L-11	16.8	
			MW-0505-1L-12	17.4	
		SAND: Gray medium to coarse SAND & GRAVEL, wet sub-rounded, poorly graded (water at 21.5')	MW-0505-1L-13	19.2	sand pack PVC sch 40
			MW-0505-1L-14	18.9	
			MW-0505-1L-15	21.7	
			MW-0505-1L-16	15.2	
			MW-0505-1L-17	11.9	
			MW-0505-1L-18	10.6	
			MW-0505-1L-19	13.4	
			MW-0505-1L-20	16.8	
		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, firm	MW-0505-1L-21	10.1	



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: **MW-0505-2L**

TOTAL DEPTH: **68.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, IN**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/5/2005**
DATE COMPLETED: **10/5/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **Kevin Smith**
DRILLING METHOD: **Roto-Sonic**
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0505-2L-01		Flush Mount PVC sch 40 bent-cement grout
5		CLAY: Brown silty sandy CLAY nonplastic, non-cohesive, non-sticky, dry, friable			
10		CLAY: lt. olive gray silty sandy CLAY, plastic, cohesive, sticky, moist, rust-colored mottling			
15		SILT: Dark yellowish brown clayey SILT, slightly plastic, cohesive, slightly sticky, moist, trace gravel, rust colored mottling			
20					
25		SAND: Gray medium to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded (water @ 21.5')			
30					
35					
40		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, firm			
45		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, hard, trace gravel	MW-0505-2L-02 MW-0505-2L-03 MW-0505-2L-04 MW-0505-2L-05 MW-0505-2L-06 MW-0505-2L-07 MW-0505-2L-08 MW-0505-2L-09 MW-0505-2L-10 MW-0505-2L-11 MW-0505-2L-12 MW-0505-2L-13 MW-0505-2L-14	4.7 6.2 7.3 8.4 10.9 11.1 12.6 13.2 11.7 10.3 12.1 11.4 8.0	
50		SAND: Gray medium to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded (water @ 50.0-67.0)			
55					
60					
65		LIMESTONE: Limestone- weathered			sand pack PVC sch 40



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: MW-0506-1L

TOTAL DEPTH: 35.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
SITE LOCATION: Kokomo, IN
LOGGED BY: Tim Yates
DATE STARTED: 9/29/2005
DATE COMPLETED: 9/29/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Roto-Sonic
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0506-1U-01	0.2	Flush Mount
		CLAY: Brown silty sandy CLAY, slightly plastic, cohesive, slightly sticky, moist, trace gravel, rust-colored mottling	MW-0506-1U-02	8.0	PVC sch 40 bent-cement grout
5		CLAY: Dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, olive mottling - wet black clayey sandstringer (<1.0") @ 7.0', sl. odor, DNAPL negative (PID 32.9)	MW-0506-1U-03	18.3	
			MW-0506-1U-04	27.6	
			MW-0506-1U-05	11.2	
10		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, firm	MW-0506-1U-06	4.2	
			MW-0506-1U-07	6.7	
15			MW-0506-1U-08	5.5	
		BLANK: Blank Drill			
20					
25					sand pack
30					PVC sch 40
35					



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: MW-0506-I2

TOTAL DEPTH: 48.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
SITE LOCATION: Kokomo, IN
LOGGED BY: Tim Yates
DATE STARTED: 9/29/2005
DATE COMPLETED: 9/29/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Roto-Sonic
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0506-2U-01	0.0	Flush Mount PVC sch 40 bentonite-pellets
		CLAY: Brown silty sandy CLAY, slightly plastic, cohesive, slightly sticky, moist	MW-0506-2U-02	1.6	
5		CLAY: dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, trace gravel, olive mottling	MW-0506-2U-03	18.9	
		SAND: Black clayey SAND stringer, wet, slight odor, DNAPL negative (PID - 34.6)	MW-0506-2U-04	22.7	
10		CLAY: Dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, trace gravel, olive mottling	MW-0506-2U-05	12.2	
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, firm	MW-0506-2U-06	9.4	
15		BLANK: Blank Drill	MW-0506-2U-07	7.3	
			MW-0506-2U-08	5.2	
20					sand pack PVC sch 40
25					
30					
35					
40					
45					



ARCADIS

WELL CONSTRUCTION LOG

WELL NO.: MW-0506-2L

TOTAL DEPTH: 73.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
 SITE LOCATION: Kokomo, IN
 LOGGED BY: Tim Yates
 DATE STARTED: 9/28/2005
 DATE COMPLETED: 9/28/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
 DRILLER: Kevin Smith
 DRILLING METHOD: Roto-Sonic
 COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0506-3U-01	0.0	Flush Mount PVC sch 40 bent-cement grout
5		CLAY: Brown silty sandy CLAY, slightly plastic, cohesive, slightly sticky, moist, gray mottling	MW-0506-3U-02	7.6	
10		CLAY: Dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, trace gravel, rust colored mottling	MW-0506-3U-03	14.4	
15		SAND: SAND stringer, wet, no staining, no odor, DNAPL negative	MW-0506-3U-04	21.4	
20		CLAY: Dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, trace gravel, rust colored mottling, wet clayey SAND stringer @7.0' (<1.0") gray, sl. odor, DNAPL negative (PID - 29.9)	MW-0506-3U-05	9.6	
25		SILT: gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel	MW-0506-3U-06	7.7	
30		SAND: Gray med. to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded (water @ 25 - 34')	MW-0506-3U-07	12.8	
35		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, slightly moist, very hard	MW-0506-3U-08	3.4	
40		SAND: Gray medium to coarse SAND & GRAVEL, wet (Water @ 43.5 - 48')	MW-0506-3U-09	7.6	
45		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, slightly moist, hard, trace gravel	MW-0506-3U-10	8.1	
50		LIMESTONE: Limestone - weathered	MW-0506-3U-11	5.3	
55			MW-0506-3U-12	7.0	
60			MW-0506-3U-13	9.8	
65			MW-0506-3U-14	5.2	
70			MW-0506-3U-15	4.3	
			MW-0506-3U-16	3.1	
			MW-0506-3U-17	2.2	
			MW-0506-3U-18	2.6	
			MW-0506-3U-19	1.9	
			MW-0506-3U-20	3.5	
			MW-0506-3U-21	7.7	
			MW-0506-3U-22	10.4	
			MW-0506-3U-23	20.6	
			MW-0506-3U-24	14.3	
			MW-0506-3U-25	7.6	
			MW-0506-3U-26	5.3	
			MW-0506-3U-27	2.1	
			MW-0506-3U-28	1.8	
			MW-0506-3U-29	0.9	
			MW-0506-3U-30	1.2	
			MW-0506-3U-31	0.8	
			MW-0506-3U-32	11.1	
			MW-0506-3U-33	13.1	
			MW-0506-3U-34	12.9	
			MW-0506-3U-35	3.2	
			MW-0506-3U-36	6.9	
			MW-0506-3U-37	8.1	

sand pack
PVC sch 40

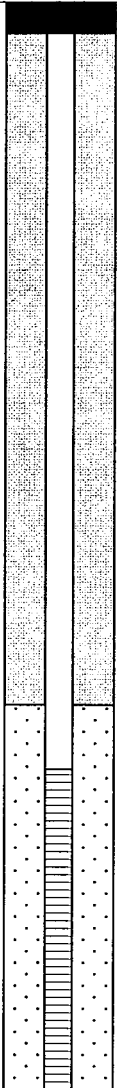
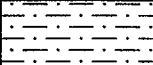
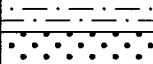
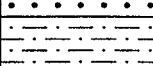
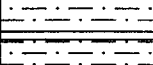
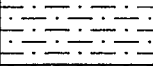
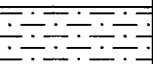


WELL NO.: **MW-0507-1L**

TOTAL DEPTH: 35.00

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Roto-Sonic
COORDINATES:
Northings:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Fill	MW-0507-1L-01	0.0	 Flush Mount PVC sch 40 bent-cement grout sand pack PVC sch 40
		CLAY: dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive and gray mottling; sand stringer @ 4.5' and 10.0', wet, both <2.0" thick	MW-0507-1L-02	0.8	
			MW-0507-1L-03	2.4	
			MW-0507-1L-04	5.6	
			MW-0507-1L-05	17.4	
			MW-0507-1L-06	16.2	
		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel hard	MW-0507-1L-07	5.6	
		SAND: dark yellowish brown medium to coarse SAND with gravel, wet	MW-0507-1L-08	17.8	
		SILT: gray clayey SILT, nonplastic cohesive, nonsticky, moist, trace gravel, hard	MW-0507-1L-09	14.3	
		SAND: wet SAND stringer	MW-0507-1L-10	6.1	
		SILT: gray clayey SILT, nonplastic cohesive, nonsticky, moist, trace gravel, hard	MW-0507-1L-11	3.4	
		SAND: gray medium to coarse SAND and gravel, wet, water @ 24.0-33.0	MW-0507-1L-12	2.7	
			MW-0507-1L-13	11.4	
			MW-0507-1L-14	14.6	
			MW-0507-1L-15	12.8	
			MW-0507-1L-16	15.1	
			MW-0507-1L-17	10.7	
		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, hard	MW-0507-1L-18	5.2	



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WELL CONSTRUCTION LOG

WELL NO.: MW-0509-12

TOTAL DEPTH: 55.00

PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
SITE LOCATION: Kokomo, IN
LOGGED BY: Tim Yates
DATE STARTED: 10/4/2005
DATE COMPLETED: 10/4/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
DRILLER: Kevin Smith
DRILLING METHOD: Hollow Stem Auger
COORDINATES:
Northing:
Easting:
Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		BLANK: Blank Drill to set outer Casing	MW-0509-2U-01		Flush Mount PVC sch 40 bent-cement grout
5					
10					
15					
20					
25					
30					
35					
40		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, hard	MW-0509-2U-02	5.6	
			MW-0509-2U-03	4.8	
			MW-0509-2U-04	6.3	
45		SAND: Gray med. to coarse SAND w/ gravel, wet, poorly graded, sub-rounded, cyclic sands throughout, (clayey sand to gravel to clayey sand; all saturated) (water @ 45.0 - 54.0')	MW-0509-2U-05	11.1	
			MW-0509-2U-06	10.2	
			MW-0509-2U-07	9.6	
50			MW-0509-2U-08	13.4	
			MW-0509-2U-09	15.6	
55		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, hard	MW-0509-2U-10	10.2	sand pack PVC sch 40



WELL CONSTRUCTION LOG

WELL NO.: **MW-0516-1L**

TOTAL DEPTH: **33.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **10/6/2005**
 DATE COMPLETED: **10/6/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Kevin Smith**
 DRILLING METHOD: **Roto-Sonic**
 COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: TOPSOIL	MW-0516-2L-01		Flush Mount PVC sch 40 bent-cement grout
5		CLAY: dark brown silty sandy CLAY, slightly plastic, slightly cohesive, slightly sticky, moist, trace gravel, gray mottling			
		CLAY: dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist			
10		SAND: dark yellowish brown medium to coarse SAND and gravel, wet, subrounded, poorly graded, water @ 11.0-12.5'			
15		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, hard			sand pack PVC sch 40
20		SAND: gray medium to coarse SAND and gravel, wet, water @ 22.0-32.0'			
25		SILT: gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, hard			
30					



WELL CONSTRUCTION LOG

WELL NO.: MW-0516-2L

TOTAL DEPTH: 70.00

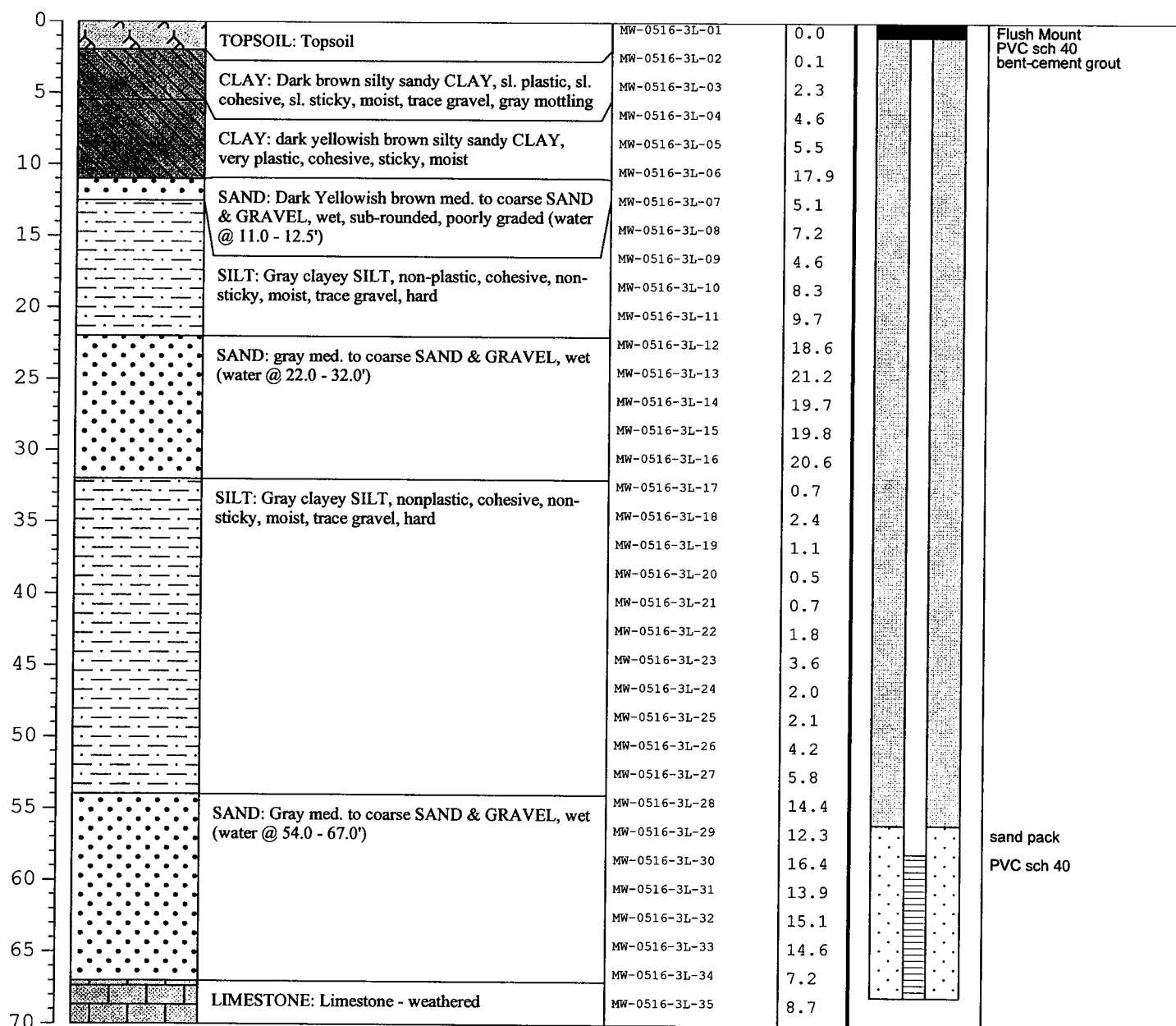
PROJECT INFORMATION

PROJECT: GM/REALM (Former Delco Plant 5)
 SITE LOCATION: Kokomo, IN
 LOGGED BY: Tim Yates
 DATE STARTED: 10/5/2005
 DATE COMPLETED: 10/5/2005

DRILLING INFORMATION

DRILLING CO.: Boart Longyear
 DRILLER: Kevin Smith
 DRILLING METHOD: Roto-Sonic
 COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
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WELL CONSTRUCTION LOG

WELL NO.: **MW-0517-1L**

TOTAL DEPTH: **30.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **9/15/2005**
 DATE COMPLETED: **9/15/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Randy Radke**
 DRILLING METHOD: **Hollow Stem Auger**
COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0517-1L-01	0.0	Flush Mount PVC sch 40
		CLAY: Brown silty sandy CLAY, non-plastic, non-cohesive, non-sticky, dry, friable	MW-0517-1L-02	0.7	
		CLAY: Dark brown silty sandy CLAY, plastic, cohesive, sticky, moist, rust-colored mottling, trace gravel	MW-0517-1L-03	8.1	
		SAND: lt. yellowish brown clayey SAND, sl. plastic, sl. cohesive, slightly sticky, wet	MW-0517-1L-04	2.4	
		SILT: dark yellowish brown clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, rust colored mottling 7.0-7.5', Color change to gray @12.0'	MW-0517-1L-05	7.6	
			MW-0517-1L-06	5.5	
			MW-0517-1L-07	9.7	
			MW-0517-1L-08	4.6	
			MW-0517-1L-09	14.2	
		SAND: Gray med to coarse SAND and GRAVEL, wet, sub-rounded, poorly graded(water @ 17.5' - 29.5')	MW-0517-1L-10	18.7	
			MW-0517-1L-11	19.1	sand pack PVC sch 40
			MW-0517-1L-12	27.6	
			MW-0517-1L-13	21.4	
			MW-0517-1L-14	10.9	
		SILT: Gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, very firm	MW-0517-1L-15	11.0	
30					



WELL CONSTRUCTION LOG

WELL NO.: **MW-0517-I2**

TOTAL DEPTH: **43.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, IN**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **10/6/2005**
 DATE COMPLETED: **10/6/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **Kevin Smith**
 DRILLING METHOD: **Roto-Sonic**
COORDINATES:
 Northing:
 Easting:
 Elevation:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
0		TOPSOIL: Topsoil	MW-0517-2L-01		Flush Mount PVC sch 40 bent-cement grout
5		CLAY: Brown silty sandy CLAY, nonplastic, noncohesive, non-sticky, dry, friable			
10		CLAY: Dark brown silty sandy CLAY, plastic, cohesive, sticky, moist, rust colored mottling, trace gravel			
15		SAND: Lt. yellowish brown clayey SAND, sl. plastic, sl. cohesive, sl. sticky, wet			
20		SILT: Dark yellowish brown clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, rust colored mottling @ 7.0-7.5' color change to gray @ 12.0'			
25		SAND: Gray med. to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded- (water @ 17.5-29.5')			
30		SILT: Gray Clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, very firm	MW-0517-2L-02	4.1	
35		SILT: Gray CLAYEY SILT, nonplastic, cohesive, nonsticky, slightly moist, very hard, trace gravel	MW-0517-2L-03	3.7	
40		SAND: Gray medium to coarse SAND with GRAVEL, wet, sub-rounded, poorly graded (water @ 36.0-38.0')	MW-0517-2L-04	4.4	
		SILT: Gray clayey SILT, nonplastic, cohesive, nonsticky, hard, trace gravel,	MW-0517-2L-05	10.2	
		SAND: Sand stringer, wet	MW-0517-2L-06	5.7	
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, hard, trace gravel	MW-0517-2L-07	9.1	
			MW-0517-2L-08	7.6	
					sand pack PVC sch 40



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BORING LOG

BORING LOG: **SB-0501**

TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **M. Griles**

DATE STARTED: **9/12/2005**

DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

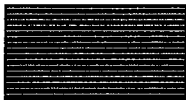
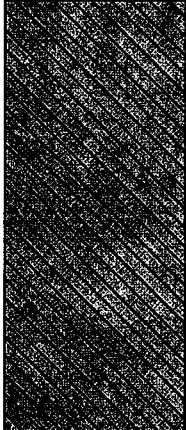
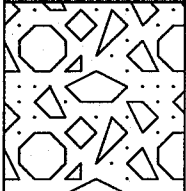
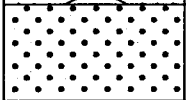
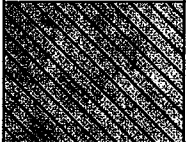
DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ fill			
		CLAY: 5YR 3/2 dark olive gray with green mottling, soft, plastic, cohesive, moisture increasing with depth, CLAY with trace pebbles, subrounded			
-5		TILL: 10YR 5/4 well graded , clayey, silty, sandy, TILL with trace gravel and pebbles, cohesive, competent, non-plastic, slightly moist			
		SAND: WYR 5/4 poorly graded SAND , slightly moist			
-10		CLAY: 10YR 4/4 well graded, silty, sandy, CLAY (till), cohesive, slightly moist			



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BORING LOG

BORING LOG: **SB-0502**

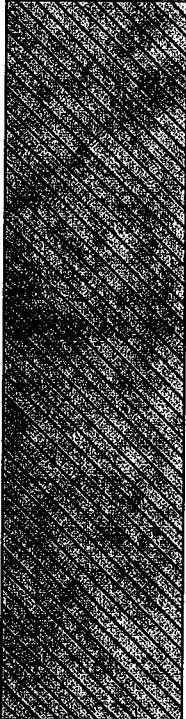
TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/12/2005**
DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ fill			
		CLAY: 5YR 3/2 dark olive gray CLAY with green mottling, soft plastic, cohesive			
		CLAY: 10YR 4/4 well graded, silty, sandy, CLAY, with trace gravel, red and yellow streaks, cohesive, competent, slightly moist, non-plastic till, with organics and humus detritus			
-5					
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0503**

TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/12/2005**
DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Soil Boring**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ fill/ brick		SB-0503-01	9.2
				SB-0503-02	11.5
		CLAY: 5YR 3/2 dark olive gray/ black CLAY with trace sand, moist, graded, plastic, noncompetent, cohesive		SB-0503-03	0.0
-5		CLAY: 10YR 5/4 silty, sandy, CLAY with trace gravel and sand, yellowish brown, competent, cohesive, slightly plastic, slightly moist		SB-0503-04	2.0
				SB-0503-05	0.0
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0504**

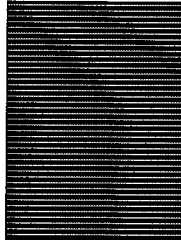
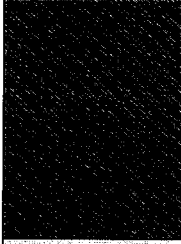
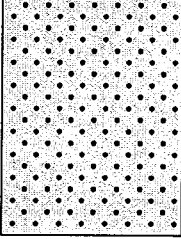
TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/12/2005**
DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ fill		SB-0504-01	34.3
		CLAY: 10YR 2/2 very dark brown sandy, silty, CLAY with trace gravel and streaks of dark brown, slate apparent in interval, slightly moist		SB-0504-02	4.5
-5		CLAY: 10YR 5/4 silty, sandy, CLAY with trace pebbles, increasing moisture with plastic, cohesive		SB-0504-03	31.8
				SB-0504-04	0.0
		SAND: 10YR 6/6 SAND, moist/wet, poorly graded, gray stringers/mottling of silt		SB-0504-05	0.0
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0505**

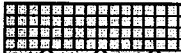
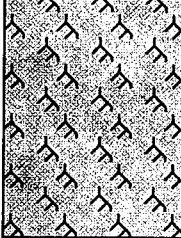
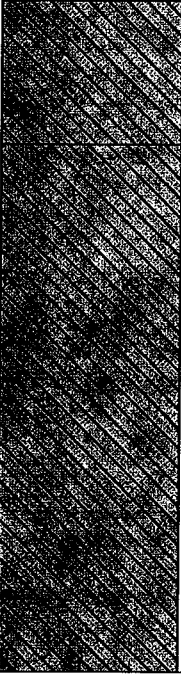
TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/12/2005**
DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		CONCRETE: CONCRETE		SB-0505-01	1.3
		TOPSOIL: TOPSOIL, cinders, brick		SB-0505-02	0.0
		CLAY: 10YR 2/2 very dark brown CLAY with trace sand and pebbles with reddish brown and gray streaks, plastic, cohesive, slightly moist		SB-0505-03	0.1
-5		CLAY: 10YR 5/4 yellowish brown CLAY with sand, pebbles and trace silt cohesive, plastic, moist		SB-0505-04	0.9
				SB-0505-05	28
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0506**

TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **M. Griles**

DATE STARTED: **9/12/2005**

DATE COMPLETED: **9/12/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ cinders/ gravel		SB-0506-01	0.0
		CLAY: 10YR 2/2 Sandy CLAY, plastic, cohesive		SB-0506-02	0.0
		CLAY: 10YR 5/4 yellowish brown CLAY with sand, silt, trace pebbles and gravel (till), slightly moist and plastic, orange and gray mottling		SB-0506-03	4.1
-5				SB-0506-04	0.0
				SB-0506-05	5.2
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0509**

TOTAL DEPTH: **25.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **M. Griles**

DATE STARTED: **9/19/2005**

DATE COMPLETED: **9/19/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **R. Gordon**

DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ cinders		SB-0509-01	1.0
-5		CLAY: 10YR 3/2 gray CLAY, plastic, pliable, with brown spots and mottling, trace sand and pebbles		SB-0509-02	0.6
				SB-0509-03	0.4
		CLAY: 10YR 5/4 yellowish brown CLAY with trace sand, gravel, pebbles, moist, pliable, plastic		SB-0509-04	0.6
				SB-0509-05	0.5
-10				SB-0509-06	0.6
				SB-0509-07	1.4
		CLAY: 10YR 3/2 gray silty sandy CLAY competent, cohesive, nonplastic, @15-18.0 interval of increased gravel within clay matrix, dry and friable		SB-0509-08	0.8
-15				SB-0509-09	0.6
				SB-0509-10	0.9
-20		SAND: 10YR 5/1 Gray coarse SAND with gravel and pebbles, grains are subrounded, wet saturated sand		SB-0509-11	1.0
				SB-0509-12	0.0
-25				SB-0509-13	0.3



ARCADIS

BORING LOG

BORING LOG: **SB-0510**

TOTAL DEPTH: **20.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/19/2005**
DATE COMPLETED: **9/19/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ cinders		SB-0510-01	0.6
		CLAY: 10YR 3/2 gray CLAY, plastic, pliable, orange-brown mottling		SB-0510-02	0.0
-5		CLAY: 10YR 5/4 yellowish brown CLAY with trace gravel, sand, and pebbles, moist, pliable, plastic, water @ 13.5'		SB-0510-03	0.0
				SB-0510-04	0.5
				SB-0510-05	0.1
-10				SB-0510-06	0.4
				SB-0510-07	0.5
		CLAY: 10YR 3/2 gray silty, sandy, CLAY, with trace gravel and pebbles, competent, cohesive, non-plastic		SB-0510-08	0.5
-15		CLAY: interval of increased gravel in till/ gray CLAY matrix		SB-0510-09	0.9
		CLAY: 10YR 3/2 gray silty, sandy, CLAY, with trace gravel and pebbles, competent, cohesive, non-plastic		SB-0510-10	0.5
-20		SAND: 10YR 5/1 coarse gray SAND, wet, subrounded, well graded, water @ 19.75			



ARCADIS

BORING LOG

BORING LOG: **SB-0511**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/19/2005**
DATE COMPLETED: **9/19/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: cinders/ TOPSOIL		SB-0511-01	0.5
		CLAY: 10YR 3/2 gray CLAY with trace sand and pebbles, pliable		SB-0511-02	0.0
-5		CLAY: 10YR 5/4 yellowish brown CLAY with trace sand and pebbles, gray and orange mottling, plastic, pliable		SB-0511-03	0.1
				SB-0511-04	0.0
				SB-0511-05	0.2
-10				SB-0511-06	0.2
				SB-0511-07	0.4
-15		CLAY: 10YR 3/2 gray silty, sandy, CLAY, competent, cohesive, trace sand and gravel, non-plastic		SB-0511-08	0.4
				SB-0511-09	0.9
				SB-0511-10	0.2
-20		SAND: 10YR 5/1 gray coarse SAND. well graded, subrounded, saturated with water at 20'		SB-0511-11	0.3
				SB-0511-12	0.2
-25				SB-0511-13	0.6
				SB-0511-14	0.6
-30				SB-0511-15	0.5
		CLAY: 10YR 3/2 gray silty, sandy, CLAY, competent, cohesive, trace sand and gravel, nonplastic (till)		SB-0511-16	0.3
-35					



ARCADIS

BORING LOG

BORING LOG: **SB-0512**

TOTAL DEPTH: **34.50**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, Indiana**
 LOGGED BY: **M. Griles**
 DATE STARTED: **9/19/2005**
 DATE COMPLETED: **9/19/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **R. Gordon**
 DRILLING METHOD: **Geoprobe**
COORDINATES
 NORTHING:
 EASTING:
 ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/ till/ topsoil		SB-0512-01	0.0
		CLAY: 10YR 5/4 yellowish brown CLAY with trace gravel, sands, and pebbles, orange and gray mottling, plastic, pliable		SB-0512-02	0.0
-5		CLAY: 10YR 3/2 gray sandy, silty, CLAY, pliable, plastic, trace gravel, pebbles and sand, with brown mottling		SB-0512-03	0.0
		CLAY: 10YR 5/4 yellowish brown CLAY with trace gravel, sands, and pebbles, orange and gray mottling, moist and expanding		SB-0512-04	0.0
-10				SB-0512-05	5.1
				SB-0512-06	1.6
-15		CLAY: 10 YR 3/2 gray sandy, silty, CLAY, competent, cohesive, non-plastic, trace gravel, pebbles, and sand, dry		SB-0512-07	6.3
		SAND: 10YR 5/1 coarse grained, well graded SAND, with pebbles and gravel, wet, DNAPL neg, subrounded grains		SB-0512-08	10.7
-20		CLAY: 10YR 3/2 gray sandy, silty, CLAY, competent, cohesive, non-plastic, trace gravel, pebbles, and sand		SB-0512-09	4.2
				SB-0512-10	10.7
-25				SB-0512-11	4.7
		SAND: 10YR 5/1 coarse grained, well graded SAND, with pebbles and gravel, wet		SB-0512-12	1.0
-30				SB-0512-13	0.0
				SB-0512-14	0.0
				SB-0512-15	0.0
				SB-0512-16	0.0
		CLAY: 10YR 3/2 gray sandy, silty, CLAY, competent, cohesive, non-plastic, non-pliable, trace gravel, pebbles, and sand		SB-0512-17	0.1
				SB-0512-18	0.4



ARCADIS

BORING LOG

BORING LOG: **SB-0513**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **9/16/2005**
DATE COMPLETED: **9/16/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0513-01	0.0
-5		CLAY: brown silty, sandy, CLAY, plastic, cohesive, sticky, moist, gray mottling		SB-0513-02	0.0
				SB-0513-03	0.0
		CLAY: dark yellowish brown, silty, sandy, CLAY, non-plastic, cohesive, non-sticky, moist, trace gravel, gray and rust colored mottling		SB-0513-04	0.7
-10				SB-0513-05	1.1
		SILT: gray clayey SILT, slightly plastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0513-06	2.9
				SB-0513-07	13.0
-15		SAND: gray medium to coarse SAND and gravel, wet, subrounded, poorly graded		SB-0513-08	18.7
				SB-0513-09	21.6
				SB-0513-10	20.4
-20				SB-0513-11	32.6
				SB-0513-12	28.2
-25				SB-0513-13	24.3
				SB-0513-14	20.1
				SB-0513-15	11.8
-30				SB-0513-16	17.3
				SB-0513-17	10.1
-35		SILT: gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0513-18	6.9



ARCADIS

BORING LOG

BORING LOG: **SB-0514**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **9/16/2005**
DATE COMPLETED: **9/16/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0514-01	0.0
-5		CLAY: dark yellowish brown silty, sandy, CLAY, plastic, cohesive, sticky, moist, trace gravel		SB-0514-02	0.2
				SB-0514-03	0.0
				SB-0514-04	1.9
-10		SILT: gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel		SB-0514-05	2.7
				SB-0514-06	13.7
				SB-0514-07	14.2
-15				SB-0514-08	11.9
				SB-0514-09	20.6
				SB-0514-10	21.2
-20		SAND: gray medium to coarse SAND and gravel, wet, subrounded, poorly graded		SB-0514-11	18.7
				SB-0514-12	44.7
-25				SB-0514-13	20.6
				SB-0514-14	14.9
				SB-0514-15	15.2
-30				SB-0514-16	12.6
				SB-0514-17	5.9
-35		SILT: gray clayey SILT, non-plastic, cohesive, non-sicky, moist, trace gravel		SB-0514-18	4.3



ARCADIS

BORING LOG

BORING LOG: **SB-0515**

TOTAL DEPTH: **20.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/21/2005**
DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		GRAVEL: GRAVEL/ slag at bottom of interval		SB-0515-01	0.9
-5		CLAY: 10YR 5/4 yellowish brown CLAY with trace sand and pebbles, plastic, pliable		SB-0515-02	0.0
				SB-0515-03	0.3
				SB-0515-04	0.9
				SB-0515-05	1.3
-10		CLAY: 10YR 5/4 yellowish brown CLAY with trace sand and pebbles, plastic, pliable, 10-12.5' interval of increased moisture		SB-0515-06	1.5
		CLAY: 10YR 3/2 sandy, silty, CLAY, gray competent, cohesive, trace sand and gravel, pebbles		SB-0515-07	1.0
-15				SB-0515-08	1.0
				SB-0515-09	0.2
-20		SAND: 10YR 5/1 coarse grained, saturated, well graded, gray SAND		SB-0515-10	0.0



ARCADIS

BORING LOG

BORING LOG: **SB-0516**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/20/2005**
DATE COMPLETED: **9/20/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ gravel		SB-0516-01	1.0
-5		CLAY: 10YR 5/4 yellowish brown CLAY, with trace gravel, pebbles, and sand, gray mottling, at 3.0-3.1' interval of wet gravel with green/brown, organic odor (sewage?)		SB-0516-02	1.6
				SB-0516-03	3.2
				SB-0516-04	5.4
				SB-0516-05	4.2
-10				SB-0516-06	3.5
				SB-0516-07	0.4
-15		CLAY: 10YR 3/2 gray competent, silty, sandy, CLAY, with trace gravel, pebbles, and sand (subrounded) sand stringers at 14.75, wet and saturated		SB-0516-08	0.5
				SB-0516-09	0.2
				SB-0516-10	0.2
-20				SB-0516-11	0.0
				SB-0516-12	0.1
-25		SAND: 10YR 5/1 wet coarse grained SAND with gravel and pebbles, well graded		SB-0516-13	0.0
				SB-0516-14	0.0
-30				SB-0516-15	0.0
				SB-0516-16	0.0
		CLAY: 10YR 3/2 gray CLAY, competent, silty, sandy, clay, with trace gravel, pebbles, and sand (subrounded)		SB-0516-17	0.0
-35				SB-0516-18	0.0



ARCADIS

BORING LOG

BORING LOG: **SB-0517**

TOTAL DEPTH: **35.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, Indiana**
 LOGGED BY: **M. Griles**
 DATE STARTED: **9/20/2005**
 DATE COMPLETED: **9/20/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **R. Gordon**
 DRILLING METHOD: **Geoprobe**
COORDINATES
 NORTHING:
 EASTING:
 ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ cinders/ gravel		SB-0517-01	0.9
		CLAY: 10YR 5/4 yellowish brown, pliable, plastic, CLAY, trace gravel sand and pebbles		SB-0517-02	1.9
-5				SB-0517-03	4.2
				SB-0517-04	3.4
-10				SB-0517-05	6.5
				SB-0517-06	10.9
-15		CLAY: 10YR 3/2 gray sandy, silty, CLAY/till with trace gravel, sand, and pebbles, non-plastic, cohesive, competent		SB-0517-07	7.5
		SAND: SAND stringer, wet		SB-0517-08	1.0
-20		CLAY: 10YR 3/2 gray sandy, silty, CLAY/till with trace gravel, sand, and pebbles, non-plastic, cohesive, competent		SB-0517-09	1.0
		SAND: SAND stringer, wet		SB-0517-10	1.0
-25		CLAY: 10YR 3/2 gray sandy, silty, CLAY/till with trace gravel, sand, and pebbles, non-plastic, cohesive, competent		SB-0517-11	1.2
				SB-0517-12	1.2
-30		SAND: 10YR 5/1 gray coarse SAND, well graded, saturated		SB-0517-13	1.2
				SB-0517-14	1.2
				SB-0517-15	0.8
				SB-0517-16	0.6
-35		TILL: 10YR 3/2 gray TILL with brown mottling, competent, cohesive		SB-0517-17	0.0



ARCADIS

BORING LOG

BORING LOG: **SB-0518**

TOTAL DEPTH: **20.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/21/2005**
DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		GRAVEL: GRAVEL		SB-0518-01	0.8
		CLAY: 10YR 5/4 yellowish brown CLAY, with trace gravel, pebbles, and sand, pliable, plastic, moisture increase		SB-0518-02	0.7
-5				SB-0518-03	0.9
				SB-0518-04	1.2
				SB-0518-05	1.5
-10				SB-0518-06	1.0
				SB-0518-07	1.0
				SB-0518-08	1.0
-15				SB-0518-09	0.8
		SAND: 10YR 5/1 coarse grained, subrounded, well graded, gray SAND, saturated @ 18'		SB-0518-10	0.0
-20					



BORING LOG

BORING LOG: **SB-0519**

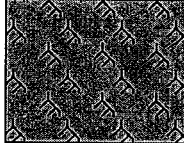
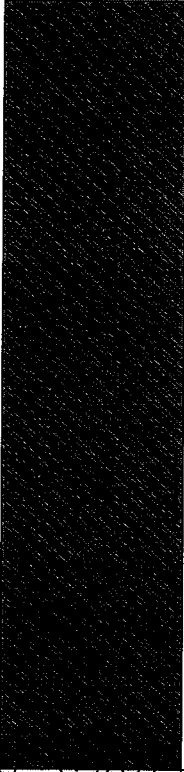
TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/21/2005**
DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0519-01	56.0
		CLAY: 10YR 5/4 yellowish brown plastic, pliable, CLAY with increased staining and odor (hydrocarbon)		SB-0519-02	563.0
				SB-0519-03	312.0
-5					
-10		TILL: 10YR 3/2 gray clay TILL, silty sandy, trace gravel and sand			



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BORING LOG

BORING LOG: **SB-0520**

TOTAL DEPTH: **25.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/21/2005**
DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		GRAVEL: GRAVEL/ with coal and black staining @ .5-1.0'		SB-0520-01	0.8
		CLAY: 10YR 5/4 brownish yellow CLAY, pliable, plastic, with trace gravel, sand, and pebbles, sand stringers @ 4.15', wet with water		SB-0520-02	10.2
-5		CLAY: 10YR 4/1 gray plastic, very moist, CLAY, pliable with trace sand and gravel		SB-0520-03	37.6
		CLAY: 10Yr 5/4 yellowish brown CLAY with trace gravel, pebbles and sand, plastic, pliable		SB-0520-04	22.2
		CLAY: 10Yr 5/4 yellowish brown CLAY with trace gravel, pebbles and sand, plastic, pliable		SB-0520-05	32.7
-10		SAND: SAND stringer, saturated with water, DNAPL negative		SB-0520-06	21.2
		CLAY: 10Yr 5/4 yellowish brown CLAY with trace gravel, pebbles and sand, pliable		SB-0520-07	10.2
		CLAY: 10YR 3/2 gray CLAY with trace gravel, sand and pebbles, competent, cohesive (till)		SB-0520-08	0.9
-15		SAND: SAND stringer, DNAPL negative		SB-0520-09	1.0
		CLAY: 10YR 3/2 gray CLAY with trace gravel, sand, and pebble, competent, cohesive, (till)		SB-0520-10	1.0
-20		SAND: 10YR 5/1 coarse grained gray SAND, wet, well graded		SB-0520-11	1.0
		CLAY: 10YR 3/2 gray silty, sandy, CLAY (till), cohesive, competent		SB-0520-12	0.8
-25				SB-0520-13	0.0



ARCADIS

BORING LOG

BORING LOG: **SB-0521**

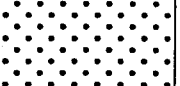
TOTAL DEPTH: **22.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/19/2005**
DATE COMPLETED: **9/19/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0521-01	0.9
		CLAY: 10YR 5/4 yellowish brown CLAY, trace gravel, sand, pebbles, dry and friable		SB-0521-02	0.2
-5				SB-0521-03	2.6
		CLAY: 10YR 5/4 yellowish brown CLAY, trace gravel, sand, pebbles, plastic and pliable		SB-0521-04	3.0
				SB-0521-05	2.6
-10				SB-0521-06	13.5
		CLAY: 10YR 3/2 gray silty, sandy, CLAY, non-plastic, cohesive, competent, @ 13.5 stringers of sand mixed with clay		SB-0521-07	42.2
-15				SB-0521-08	23.7
		CLAY: same as above, interval of increased gravel within CLAY/till matrix, wet at 14.5-17.0'		SB-0521-09	0.0
		CLAY: 10YR 3/2 gray silty, sandy, CLAY, non-plastic, cohesive, competent		SB-0521-10	0.0
-20		SAND: 10YR 5/1 coarse grained SAND, well graded, subrounded			



ARCADIS

BORING LOG

BORING LOG: **SB-0522**

TOTAL DEPTH: **25.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/20/2005**
DATE COMPLETED: **9/20/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0522-01	
		CLAY: 10YR 5/4 yellowish brown CLAY with trace gravel and sand, gray and orange mottling, dry and friable		SB-0522-02	
-5		CLAY: 10YR 5/4 yellowish brown CLAY with trace gravel and sand, gray and orange mottling, plastic and pliable, @ 10' visible staining, odor		SB-0522-03	40.1
				SB-0522-04	68.2
				SB-0522-05	273.0
-10				SB-0522-06	75.2
				SB-0522-07	1.5
-15		CLAY: 10YR 3/2 gray, silty, sandy, CLAY, non-plastic, till, cohesive, competent		SB-0522-08	8.6
				SB-0522-09	1.2
-20		SAND: 10YR 5/1 coarse, gray, SAND, well graded grains, dry		SB-0522-10	1.4
		SAND: 10YR 5/1 coarse, gray, SAND, well graded grains, wet, saturated with water		SB-0522-11	1.8
-25				SB-0522-12	1.6



ARCADIS

BORING LOG

BORING LOG: **SB-0523**

TOTAL DEPTH: **44.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/13/2005**
DATE COMPLETED: **9/13/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL, dry, w/ gravel and orange humus/detritus		SB-0523-01	40.2
-5		CLAY: 10YR 5/4 Yellowish brown CLAY, w/ streaky mottling of oranges and gray, w/ trace gravel pebbles and sand		SB-0523-02	34.0
				SB-0523-03	331.0
				SB-0523-04	221.0
				SB-0523-05	48.6
				SB-0523-06	6.7
				SB-0523-07	12.6
				SB-0523-08	87.2
				SB-0523-09	19.9
				SB-0523-10	12.5
				SB-0523-11	71.3
				SB-0523-12	136
				SB-0523-13	105
				SB-0523-14	90.3
				SB-0523-15	83.7
				SB-0523-16	4.2
				SB-0523-17	2.3
				SB-0523-18	0.0
				SB-0523-19	0.0
				SB-0523-20	0.0
				SB-0523-21	0.0
				SB-0523-22	0.0
		CLAY: 10 YR 3/2 silty sandy CLAY, w/ trace gravel, sand, moist, cohesive			



ARCADIS

BORING LOG

BORING LOG: **SB-0524**

TOTAL DEPTH: **44.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/13/2005**
DATE COMPLETED: **9/13/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL, gravel		SB-0524-01	4.1
-5		CLAY: 10 YR 5/4 Yellowish brown CLAY w/ sand, trace pebbles, gravel, mottling of orange and gray, slightly plastic, cohesive, competent, slightly moist, red streaking		SB-0524-02	3.2
				SB-0524-03	0.0
				SB-0524-04	34.2
				SB-0524-05	6.0
				SB-0524-06	0.0
				SB-0524-07	0.0
				SB-0524-08	0.0
				SB-0524-09	0.0
				SB-0524-10	0.0
				SB-0524-11	4.7
				SB-0524-12	0.0
				SB-0524-13	0.0
				SB-0524-14	1.9
				SB-0524-15	3.8
				SB-0524-16	12.6
				SB-0524-17	8.5
				SB-0524-18	7.3
				SB-0524-19	3.8
				SB-0524-20	2.5
				SB-0524-21	1.1
				SB-0524-22	0.0
-40		CLAY: 10 YR 3/2 silty sandy CLAY, dark grayish brown, pebbles and gravel and sand, in gray matrix, competent, cohesive, moist, non-plastic			



ARCADIS

BORING LOG

BORING LOG: **SB-0525**

TOTAL DEPTH: **46.50**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/14/2005**
DATE COMPLETED: **9/14/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ gravel		SB-0525-01	330
-5		CLAY: 10 YR 5/4 Yellowish brown CLAY w/ mottling of gray and orange, trace gravel, pebbles, sand. slightly moist, cohesive, plastic, non-sticky, @ 2-4' interval staining is present w/ odor		SB-0525-02	263
-10				SB-0525-03	165
-15				SB-0525-04	240
-20				SB-0525-05	495
-25				SB-0525-06	207
-30		CLAY: 10 YR 3/2 gray silty sandy CLAY, w/ trace gravel, pebbles, slightly moist, cohesive, non-plastic, competent, @ 12.0' staining present w/ odor clay/till is plastic + pliable here, directly beneath @ 12.5 - 15.0' interval w/ + gravel (80%) within the till matrix, green stain @18'		SB-0525-07	687
-35				SB-0525-08	94.4
-40				SB-0525-09	218
-45				SB-0525-10	160
-50				SB-0525-11	6.2
-55		SAND: 10 YR 5/1 coarse SAND, gray, well graded, pebbles + gravel, (water @ 23.75)		SB-0525-12	3.4
-60				SB-0525-13	7.5
-65		CLAY: 10 YR 3/2 Gray silty sandy CLAY, w/ trace gravel, pebbles, slightly moist, non-plastic, cohesive, competent		SB-0525-14	23.8
-70				SB-0525-15	14.3
-75		SAND: 10 YR 5/1 coarse SAND, gray, well graded, pebbles and gravel, water saturated		SB-0525-16	9.2
-80				SB-0525-17	15.0
-85				SB-0525-18	5.3
-90				SB-0525-19	49.2
-95				SB-0525-20	2.8
-100				SB-0525-21	6.8
-105				SB-0525-22	1.7
-110				SB-0525-23	2.5
-115				SB-0525-24	



BORING LOG

BORING LOG: **SB-0526**

TOTAL DEPTH: **20.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/13/2005**
DATE COMPLETED: **9/13/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/gravel		SB-0526-01	69.1
-5		CLAY: 10 YR 5/4 Yellowish brown CLAY, w/ pebbles, gravel, and sand, well graded, cohesive, slightly plastic, w/ gray mottling, which increases at end of interval		SB-0526-02	1205.1
				SB-0526-03	335
				SB-0526-04	173
				SB-0526-05	282.0
-10				SB-0526-06	314.0
				SB-0526-07	213.0
				SB-0526-08	487.0
-15		SAND: 10 YR 5/1 SAND, poorly graded, wet, gray v. moist (water @ 12.5)		SB-0526-09	2338.0
		CLAY: 10 YR 3/2 silty sandy CLAY, dark grayish brown, (till), competent, cohesive, non-plastic, gravel and pebbles in matrix		SB-0526-10	1361
-20		CLAY: 10 YR 3/2 silty sandy CLAY, dark grayish brown, (till)			



BORING LOG

BORING LOG: **SB-0527**

TOTAL DEPTH: **16.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/14/2005**
DATE COMPLETED: **9/14/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **N. Connitt**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0527-01	1.6
		CLAY: 10 YR 5/4 yellowish brown CLAY, w/ mottling of gray and orange streaks, trace gravel, sand and pebbles		SB-0527-02	0.9
				SB-0527-03	2.7
-5				SB-0527-04	1.4
				SB-0527-05	3.7
-10				SB-0527-06	2.9
		CLAY: 10 YR 3/2 Gray silty sandy CLAY, w/ trace gravel and pebbles, cohesive, competent, non-plastic, @12-14 interval of increased sand and gravel, within clay matrix (dry) and a 4" interval of sand @ 13'8" - 14'		SB-0527-07	22.1
-15				SB-0527-08	



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BORING LOG

BORING LOG: **SB-0528**

TOTAL DEPTH: **48.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/14/2005**
DATE COMPLETED: **9/14/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **N. Connitt**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ gravel (dry)		SB-0528-01	1.2
-5		CLAY: 10 YR 5/4 yellowish brown CLAY, w/ mottling of gray and streaks of orange and dark brown		SB-0528-02	1.4
-10				SB-0528-03	1.3
-15				SB-0528-04	1.0
-20				SB-0528-05	0.6
-25				SB-0528-06	0.9
-30		CLAY: 10 YR 3/2 gray silty sandy CLAY, w/ trace gravel, pebbles, slightly moist, cohesive, non-plastic, competent		SB-0528-07	1.0
-35				SB-0528-08	1.4
-40		SAND: 10 YR 5/1 Fine grained SAND, wet, poorly graded, (water @16.0'), DNAPL negative		SB-0528-09	12.2
-45				SB-0528-10	1.4
-50		CLAY: 10 YR 3/2 gray silty sandy CLAY, w/ trace gravel, pebbles, moist, cohesive, slightly sticky, non-plastic		SB-0528-11	1.7
-55				SB-0528-12	7.9
-60				SB-0528-13	5.1
-65		SAND: 10 YR 5/1 coarse grained SAND w/ subrounded, pebbles and gravel, well graded, saturated		SB-0528-14	33.7
-70				SB-0528-15	17.9
-75				SB-0528-16	3.4
-80				SB-0528-17	1.6
-85				SB-0528-18	8.7
-90				SB-0528-19	3.3
-95				SB-0528-20	2.9
-100				SB-0528-21	5.2
-105				Sb-0528-22	1.7
-110				SB-0528-23	2.7
-115		CLAY: 10 YR 3/2 gray silty sandy CLAY, w trace gravel, competent (hard), cohesive, non-plastic		SB-0528-24	0.9



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BORING LOG

BORING LOG: **SB-0529**

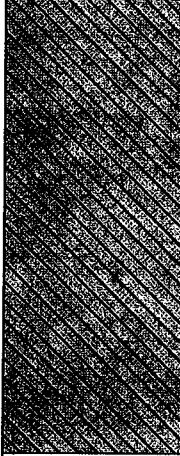
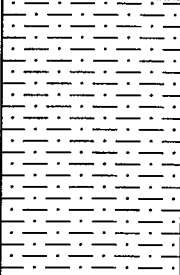
TOTAL DEPTH: **22.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **9/14/2005**
DATE COMPLETED: **9/14/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **Randy Radke**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0529-01	0.0
-5		CLAY: Brown silty sandy CLAY, plastic, cohesive, sticky, moist, gray mottling		SB-0529-02	1.5
				SB-0529-03	3.6
				SB-0529-04	13.7
				SB-0529-05	21.8
-10		SILT: gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0529-06	32.6
				SB-0529-07	47.9
				SB-0529-08	72.4
-15				SB-0529-09	92.1
		SAND: dark gray fine to medium SAND, wet, sub-rounded, poorly graded,		SB-0529-10	189.0
		SILT: gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, firm			
-20		SAND: dark gray clayey SAND, wet, odor, plastic, non-cohesive, sticky, soft		SB-0529-11	82.7
		SILT: gray clayey SILT, non-plastic, cohesive, non-sticky, moist, trace gravel			
		SAND: Gray medium to coarse SAND & GRAVEL, wet, sub-rounded, poorly graded			



BORING LOG

BORING LOG: **SB-0530**

TOTAL DEPTH: **24.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, Indiana**
 LOGGED BY: **M. Griles**
 DATE STARTED: **9/15/2005**
 DATE COMPLETED: **9/15/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **N. Connitt**
 DRILLING METHOD: **Geoprobe**
COORDINATES
 NORTHING:
 EASTING:
 ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/ gravel (dry soils)		SB-0530-01	0.6
-5		CLAY: 10 YR 5/4 yellowish brown CLAY, w/ mottling of gray and orange streaking, plastic, non-sticky, pliable, slightly moist, cohesive, (top of interval drier)		SB-0530-02	0.0
				SB-0530-03	0.0
				SB-0530-04	0.1
		CLAY: 10 YR 3/2 gray silty sandy CLAY (till) w/ trace gravel, pebbles and sands, competent, cohesive, @ 12.5-15' an interval of increased gravels within the till matrix allows for friability in the dry gravelley clay, moist @ 19.80 to 20.5' sand stringer with DNAPL positive, clay continues from 20.5 to 23.75 with a yellow greasy liquid coating		SB-0530-05	1.2
-10				SB-0530-06	0.2
				SB-0530-07	0.4
				SB-0530-08	1.7
				SB-0530-09	0.5
				SB-0530-10	0.2
				SB-0530-11	
				SB-0530-12	
-20		SAND: 10 YR 5/1 Coarse SAND, gray w/ well graded, pebbles, gravel, (water @ 23.75), DNAPL negative			



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BORING LOG

BORING LOG: **SB-0531**

TOTAL DEPTH: **50.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, Indiana**
 LOGGED BY: **M. Griles**
 DATE STARTED: **9/15/2005**
 DATE COMPLETED: **9/15/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **J. Stone**
 DRILLING METHOD: **Geoprobe**
COORDINATES
 NORTHING:
 EASTING:
 ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL/gravel		SB-0531-01	0.5
-5		CLAY: 10 YR 5/4 yellowish brown CLAY, w/ trace gravel, pebbles, and sand, streaky orange and dark brown mottling w/ gray clay		SB-0531-02	0.1
-10		CLAY: 10 YR 3/2 gray silty sandy CLAY, w/ trace gravel, non-plastic, cohesive, competent, dry (slight moisture at bottom of interval)		SB-0531-03	0.0
-15		SAND: 10 YR 5/1 gray coarse grained SAND, wet, well graded, subrounded pebbles and gravel		SB-0531-04	0.4
-20		CLAY: 10 YR 3/2 gray silty sandy CLAY, moist, slightly plastic, cohesive, competent, 19.5-19.8' SAND stringer, wet, DNAPL negative		SB-0531-05	0.6
-25		SAND: 10 YR 5/1 gray coarse grained SAND, wet, well graded, subrounded grains		SB-0531-06	0.4
-30				SB-0531-07	0.4
-35				SB-0531-08	0.4
-40				SB-0531-09	0.4
-45				SB-0531-10	0.5
-50		CLAY: 10 YR 3/2 Gray silty sandy CLAY, moist, cohesive, competent		SB-0531-11	0.8
				SB-0531-12	1.0
				SB-0531-13	1.2
				SB-0531-14	0.8
				SB-0531-15	0.0
				SB-0531-16	0.2
				SB-0531-17	0.5
				SB-0531-18	0.2
				SB-0531-19	0.0
				SB-0531-20	0.1
				SB-0531-21	0.1
				SB-0531-22	0.0
				SB-0531-23	0.0
				SB-0531-24	0.0
				SB-0531-25	0.0



BORING LOG

BORING LOG: **SB-0532**

TOTAL DEPTH: **49.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
 SITE LOCATION: **Kokomo, Indiana**
 LOGGED BY: **Tim Yates**
 DATE STARTED: **9/16/2005**
 DATE COMPLETED: **9/16/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
 DRILLER: **R. Gordon**
 DRILLING METHOD: **Geoprobe**
COORDINATES
 NORTHING:
 EASTING:
 ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0532-01	0.6
-5		CLAY: Dark olive brown silty sandy CLAY, plastic cohesive, sticky, moist, gray mottling		SB-0532-02	0.8
				SB-0532-03	2.2
				SB-0532-04	2.1
-10		CLAY: dark yellowish brown silty sandy CLAY, slightly plastic, cohesive, non-sticky, slightly moist, gray and rust colored mottling, trace gravel		SB-0532-05	4.7
				SB-0532-06	3.6
-15		CLAY: Dark olive green silty sandy CLAY, non-plastic, slightly cohesive, non-sticky, slightly moist, black mottling, slight unidentifiable odor		SB-0532-07	5.8
				SB-0532-08	9.6
-20		SAND: Gray medium to coarse SAND & GRAVEL, wet subrounded poorly graded		SB-0532-09	7.5
				SB-0532-10	10.1
-25		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, firm, trace gravel		SB-0532-11	34.6
				SB-0532-12	27.2
-30				SB-0532-13	43.4
				SB-0532-14	39.1
-35				SB-0532-15	41.2
				SB-0532-16	10.7
-40				SB-0532-17	5.6
				SB-0532-18	4.1
-45				SB-0532-19	7.5
				SB-0532-20	6.3
				SB-0532-21	4.0
				SB-0532-22	3.9
				SB-0532-23	10.1
		SAND: Gray medium to coarse SAND & GRAVEL, wet		SB-0532-24	2.7
				SB-0532-25	4.9



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BORING LOG

BORING LOG: **SB-0533**

TOTAL DEPTH: **36.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/20/2005**
DATE COMPLETED: **9/20/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: Topsoil		SB-0533-01	0.0
-5		CLAY: 10YR 5/4 yellowish brown CLAY, pliable, plastic, trace gravel, sand & pebbles, gray mottling		SB-0533-02	0.1
				SB-0533-03	0.0
				SB-0533-04	3.0
		CLAY: 10 yr 3/2 gray silty, sandy CLAY/TILL w/ trace gravel pebbles & sand, competent, cohesive		SB-0533-05	4.4
-10				SB-0533-06	41.8
				SB-0533-07	9.2
-15		SAND: 10 yr 5/1 coarse gray saturated SANDs, well graded; Water @13.5		SB-0533-08	23.6
				SB-0533-09	22.3
				SB-0533-10	3.5
-20				SB-0533-11	40.1
				SB-0533-12	9.2
-25				SB-0533-13	6.5
				SB-0533-14	3.3
				SB-0533-15	2.1
-30				SB-0533-16	0.5
				SB-0533-17	0.0
-35		CLAY: 10 yr 3/2 gray silty sandy CLAY (Till) with trace gravel, competent, cohesive, non-plastic		SB-0533-18	0.0



ARCADIS

BORING LOG

BORING LOG: **SB-0534**

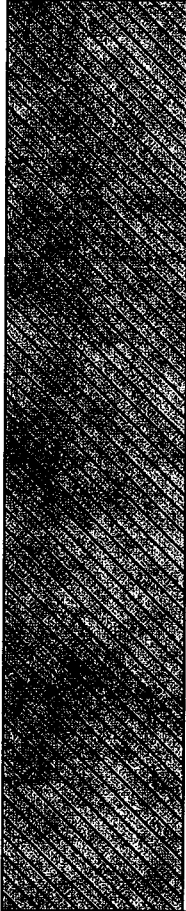
TOTAL DEPTH: **10**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **M. Griles**
DATE STARTED: **9/21/2005**
DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **R. Gordon**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: Topsoil		SB-0534-01	0.0
		CLAY: 10 yr 5/4 yellowish brown CLAY w/ trace gravel, sand, and pebbles, plastic, pliable		SB-0534-02	0.0
				SB-0534-03	0.0
-5				SB-0534-04	52.3
				SB-0534-05	185.0
-10					



BORING LOG

BORING LOG: **SB-0535**

TOTAL DEPTH: **10.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **M. Griles**

DATE STARTED: **9/21/2005**

DATE COMPLETED: **9/21/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **R. Gordon**

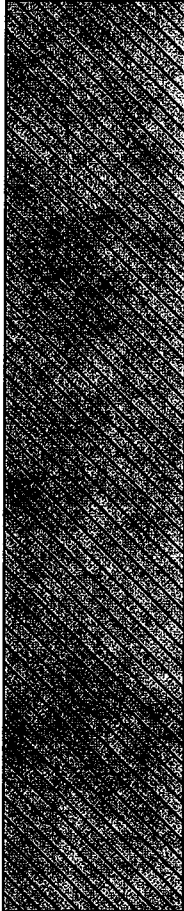
DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: Topsoil		SB-0535-01	0.5
		CLAY: 10 yr 5/4 yellowish brown CLAY w/ trace gravel, pebbles, & sand @ 0.5-3.5 interval of dry and increased gravel, @4.5-5.0' visible staining and odor		SB-0535-02	1.7
				SB-0535-03	32.5
-5				SB-0535-04	0.0
				SB-0535-05	0.0
-10					



ARCADIS

BORING LOG

BORING LOG: **SB-0540**

TOTAL DEPTH: **32.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **Tim Yates**

DATE STARTED: **10/6/2005**

DATE COMPLETED: **10/6/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

DRILLING METHOD: **Geoprobe 6610DT**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		FILL: FILL		SB-0540-01	0.0
		CLAY: Brown silty sandy CLAY, plastic, cohesive., sticky, moist		SB-0540-02	0.8
		CLAY: Dark yellowish brown silty sandy CLAY very plastic, cohesive, sticky, moist, trace gravel, gray & rust colored mottling		SB-0540-03	2.1
				SB-0540-04	1.4
				SB-0540-05	4.6
-10		SILT: Gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, firm		SB-0540-06	5.3
				SB-0540-07	6.8
				SB-0540-08	2.4
				SB-0540-09	4.7
				SB-0540-10	7.6
-20		SAND: Gray med. to coarse SAND & gravel, wet, sub-rounded, poorly graded; Water @19.5-31.0'		SB-0540-11	10.2
				SB-0540-12	11.4
				SB-0540-13	12.7
				SB-0540-14	10.8
				SB-0540-15	11.1
-30		SILT: Gray clayey SILT nonplastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0540-16	7.7



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BORING LOG

BORING LOG: **SB-0541**

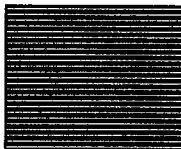
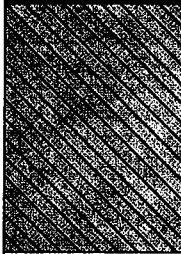
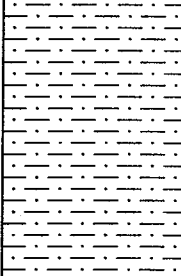
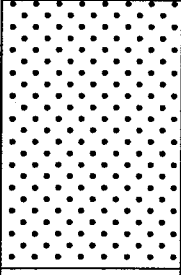
TOTAL DEPTH: **28.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/6/2005**
DATE COMPLETED: **10/6/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/FILL		SB-0541-01	0.0
-5		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive mottling		SB-0541-02	0.2
				SB-0541-03	1.4
				SB-0541-04	0.3
				SB-0541-05	2.5
-10		SILT: Gray clayey SILT, nonplastic, cohesive, nonsticky, moist, trace gravel, firm		SB-0541-06	3.1
				SB-0541-07	4.1
				SB-0541-08	2.6
				SB-0541-09	7.8
-15				SB-0541-10	9.5
		SAND: Gray med. to coarse SAND & gravel, wet, sub-rounded, poorly graded; Water @18.0-25.0'		SB-0541-11	8.2
-20				SB-0541-12	7.7
				SB-0541-13	5.7
-25		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0541-14	3.6



ARCADIS

BORING LOG

BORING LOG: **SB-0542**

TOTAL DEPTH: **18.50**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **Tim Yates**

DATE STARTED: **10/6/2005**

DATE COMPLETED: **10/6/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

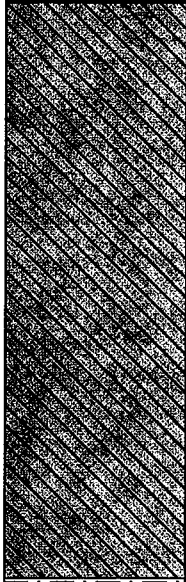
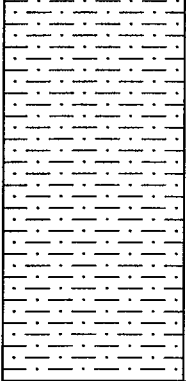
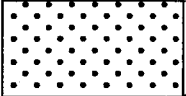
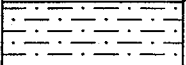
DRILLING METHOD: **Roto-Sonic**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		ASPHALT: ASPHALT/Fill		SB-0542-01	0.0
		CLAY: Dark yellowish brown silty sandy CLAY, plastic, cohesive, sticky, moist, gray & rust colored mottling		SB-0542-02	0.2
				SB-0542-03	0.8
-5				SB-0542-04	1.1
				SB-0542-05	2.4
-10		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0542-06	1.8
				SB-0542-07	1.9
				SB-0542-08	5.3
-15		SAND: Gray fine SAND, wet, trace clays; Water @16.0-17.5'		SB-0542-09	7.4
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, very hard		SB-0542-10	4.2
		Refusal			



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BORING LOG

BORING LOG: **SB-0543**

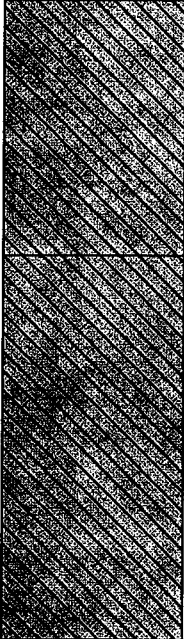
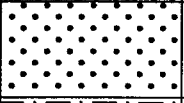
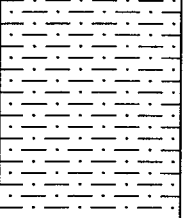
TOTAL DEPTH: **16.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/7/2005**
DATE COMPLETED: **10/7/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0543-01	0.0
		CLAY: Brown silty sandy CLAY, sl. plastic, cohesive, sl. sticky, moist, trace gravel		SB-0543-02	2.6
				SB-0543-03	5.3
-5		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive., sticky, gray mottling, trace gravel		SB-0543-04	4.7
				SB-0543-05	5.1
-10				SB-0543-06	16.3
		SAND: Dark yellowish brown med. to coarse SAND & gravel, wet, sub-rounded, poorly graded, water at 11.0-12.5'		SB-0543-07	4.7
		SILT: Gray clayey SILT nonplastic, cohesive, non-sticky, moist, trace gravel, firm		SB-0543-08	2.9
-15					



BORING LOG

BORING LOG: **SB-0544**

TOTAL DEPTH: **28.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/7/2005**
DATE COMPLETED: **10/7/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0544-01	0.0
-5		CLAY: Brown silty sandy CLAY, sl. plastic, cohesive, sl. sticky, moist, rust-colored mottling		SB-0544-02	4.6
				SB-0544-03	3.9
				SB-0544-04	2.2
		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, gray & rust colored mottling		SB-0544-05	3.5
-10		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, sl. moist, hard, trace gravel		SB-0544-06	3.5
				SB-0544-07	7.7
				SB-0544-08	8.7
-15				SB-0544-09	9.4
				SB-0544-10	13.2
-20				SB-0544-11	14.1
				SB-0544-12	21.6
-25		SAND: Gray med. to coarse SAND & gravel, wet, sub-rounded, poorly graded; Water @23.5-28.0'		SB-0544-13	24.5
				SB-0544-14	27.2



ARCADIS

BORING LOG

BORING LOG: **SB-0545**

TOTAL DEPTH: **28.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/7/2005**
DATE COMPLETED: **10/7/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0545-01	0.0
-5		CLAY: Dark brown silty sandy CLAY sl. plastic, cohesive, sl. sticky, moist, trace gravel; orange mottling from 2.0-4.5'		SB-0545-02	1.8
				SB-0545-03	2.2
				SB-0545-04	8.3
				SB-0545-05	7.4
-10				SB-0545-06	6.5
		SILT: Gray clayey SILT, sl. plastic, cohesive, non-sticky, moist, trace gravel, firm, wet fine sand stringer (<1.0") @15.5', DNAPL negative		SB-0545-07	5.4
-15				SB-0545-08	36.8
				SB-0545-09	7.3
		SAND: Dark yellowish brown clayey SAND, sl., plastic, sl. cohesive, sticky, wet; Water @17.5-28.0'		SB-0545-10	11.4
-20				SB-0545-11	14.3
				SB-0545-12	12.7
				SB-0545-13	13.2
-25				SB-0545-14	20.5



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BORING LOG

BORING LOG: **SB-0546**

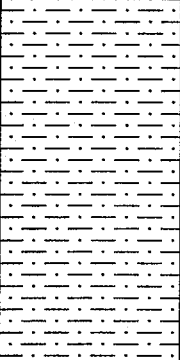
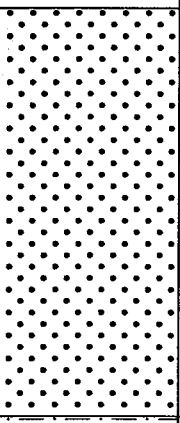
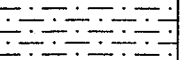
TOTAL DEPTH: **24.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/7/2005**
DATE COMPLETED: **10/7/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		CONCRETE: Concrete		SB-0546-01	0.0
		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive & gray mottling		SB-0546-02	1.5
-5				SB-0546-03	2.7
		SAND: Approx. 3" wet clayey SAND stringer		SB-0546-04	10.2
		SILT: Dark yellowish brown clayey SILT nonplastic, cohesive, non-sticky, moist, trace gravel, firm, sand stringer (<2.0") @ 9.5', color change to gray at 10.5'		SB-0546-05	3.8
-10				SB-0546-06	5.6
				SB-0546-07	7.9
-15		SAND: Gray med. to coarse SAND & gravel, wet, sub-rounded, poorly graded; Water @14.0-22.5'		SB-0546-08	13.9
				SB-0546-09	15.2
				SB-0546-10	14.4
-20				SB-0546-11	18.3
				SB-0546-12	7.1
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist trace gravel, firm			



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BORING LOG

BORING LOG: **SB-0547**

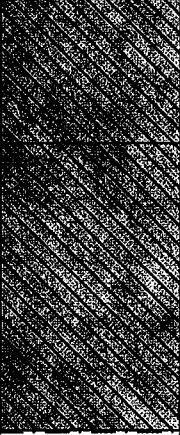
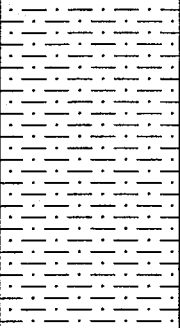
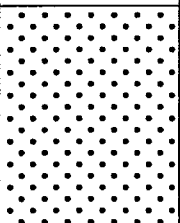
TOTAL DEPTH: **23.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**
SITE LOCATION: **Kokomo, Indiana**
LOGGED BY: **Tim Yates**
DATE STARTED: **10/10/2005**
DATE COMPLETED: **10/10/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**
DRILLER: **J. Stone**
DRILLING METHOD: **Geoprobe**
COORDINATES
NORTHING:
EASTING:
ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SDB-0547-01	0.0
		CLAY: Brown silty sandy CLAY, sl. plastic, cohesive, sl. ,sticky, moist, orange mottling		SDB-0547-02	0.5
-5		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive & gray mottling		SDB-0547-03	0.8
				SDB-0547-04	1.9
				SDB-0547-05	2.5
-10		SILT: Gray clayey SILT, sl., plastic, cohesive, sl. sticky, moist, trace gravel, very firm, decreased moisture & increased hardness @ 12.0'		SDB-0547-06	4.5
				SDB-0547-07	6.9
				SDB-0547-08	5.5
				SDB-0547-09	13.7
-15				SDB-0547-10	14.5
		SAND: Dark yellowish brown med. to coarse SAND & gravel, moist, sub-rounded, poorly graded, wet @ 19.0'		SDB-0547-11	12.2
-20				SDB-0547-12	5.1
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, sl. moist, trace gravel, very hard			



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BORING LOG

BORING LOG: **SB-0548**

TOTAL DEPTH: **28.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **Tim Yates**

DATE STARTED: **10/10/2005**

DATE COMPLETED: **10/10/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0548-01	0.0
		CLAY: Brown silty sandy CLAY, sl., plastic, sl. cohesive, sl. sticky, sl. moist, brittle, orange mottling, trace gravel		SB-0548-02	0.8
-5		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive & gray mottling		SB-0548-03	0.2
				SB-0548-04	0.4
				SB-0548-05	2.1
-10		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, hard		SB-0548-06	1.5
				SB-0548-07	7.3
				SB-0548-08	3.1
				SB-0548-09	2.4
				SB-0548-10	3.1
-20				SB-0548-11	5.2
				SB-0548-12	7.8
-25		SAND: Gray find SAND, set, sub-rounded, poorly graded; Water @23.5-26.0'		SB-0548-13	9.6
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, trace gravel, hard		SB-0548-14	5.4



ARCADIS

BORING LOG

BORING LOG: **SB-0549**

TOTAL DEPTH: **16.00**

PROJECT INFORMATION

PROJECT: **GM/REALM (Former Delco Plant 5)**

SITE LOCATION: **Kokomo, Indiana**

LOGGED BY: **Tim Yates**

DATE STARTED: **10/10/2005**

DATE COMPLETED: **10/10/2005**

DRILLING INFORMATION

DRILLING CO.: **Boart Longyear**

DRILLER: **J. Stone**

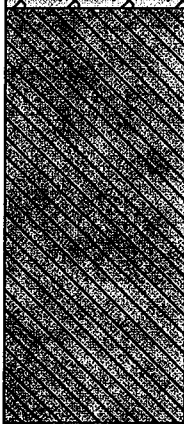
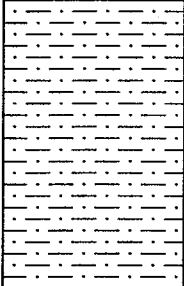
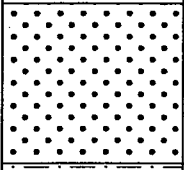
DRILLING METHOD: **Geoprobe**

COORDINATES

NORTHING:

EASTING:

ELEVATION:

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	MOISTURE	SAMPLE NUMBER	PID (ppm)
0		TOPSOIL: TOPSOIL		SB-0549-01	0.0
		CLAY: Dark yellowish brown silty sandy CLAY, very plastic, cohesive, sticky, moist, olive & gray mottling, trace gravel		SB-0549-02	0.2
				SB-0549-03	1.2
				SB-0549-04	1.8
		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, hard, trace gravel		SB-0549-05	1.4
				SB-0549-06	2.1
		SAND: Gray med. to coarse SAND & gravel, wet, sub-rounded, poorly graded; Water @12.0-14.5'		SB-0549-07	7.6
				SB-0549-08	5.3
-15		SILT: Gray clayey SILT, nonplastic, cohesive, non-sticky, moist, hard, trace gravel			

Appendix B

Sampling and Analysis Matrix

ARCADIS

Table 1. Proposed Sampling Matrix, RCRA Facility Investigation Phase II, Former GM Delco Plant 5, Kokomo, Indiana

AOI	Name	Sample Matrix	Data Usage	Sample Locations	Number of Proposed Soil Borings	Number of Proposed Monitoring Wells	Laboratory Parameters	Field Parameters	Analytical Method
NA	Upgradient	Groundwater	Delineate VOCs in groundwater	Proposed Wells: MW-0601-S1	--	1	VOCs	Qualitative Screening	8260
AOI 5	Former Hazardous Waste	Soil	Delineate VOCs in soil	1 soil boring across Washington Street (SB-0602) 6 soil borings in the vicinity of AOI 5 (SB-0608 through SB-0613) 2 soil boring for waste characterization (SB-0618 and SB-0619)	9	--	VOCs (All soil borings) Waste Characterization Parameters (SB-0618 and SB-0619 only)	Qualitative screening*, PID Qualitative screening*	8260 Various
		Groundwater	Delineate VOCs in groundwater	Proposed Wells: MW-0504-S2, MW-0604-S1, MW-0604-S2, MW-0605-S1, MW-0605-S2, MW-0605-S3, MW-0608-S1, MW-0610-S1	--	8	VOCs	Qualitative Screening	8260
AOI 6	Waste Pile	Soil	Delineate VOCs in soil	5 soil borings in the vicinity of AOI 6 (SB-0603 through SB-0607) 2 soil borings for waste characterization (SB-0616 and SB-0617)	7	--	VOCs (All soil borings) Waste Characterization Parameters (SB-0616 and SB-0617 only)	Qualitative screening*, PID Qualitative screening*	8260 Various
		Groundwater	Delineate VOCs in groundwater	Proposed Wells: MW-0606-S1, MW-0607-S1, MW-0609-S1	--	3	VOCs	Qualitative Screening	8260
AOI 7	Northern Portion of Former East Manufacturing Building	Soil	Delineate VOCs in soil	1 soil boring across Washington Street (SB-0601) 2 soil borings in the vicinity of AOI 7 (SB-0614 and SB-0615) 2 soil borings for waste characterization (SB-0620 and SB-0621)	5	--	VOCs (All soil borings) Waste Characterization Parameters (SB-0620 and SB-0621 only)	Qualitative screening*, PID Qualitative screening*	8260 Various
		Groundwater	Delineate VOCs in groundwater	Proposed Wells: MW-0602-S1, MW-0602-S2, MW-0603-S1	--	3	VOCs	Qualitative Screening	8260
NA	Background	Soil	Delineate lead impacts in the soil	3 soil borings in the vicinity of SB-0506 (SB-0622 through SB-0624)	3	--	Lead	Qualitative screening*	6010

* - Qualitative screening consists of visual (staining, sheen) and olfactory (odor) observations of the individual samples