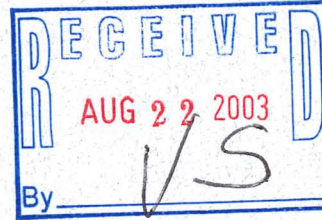




W66 N215 Commerce Court
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(262) 375-4750
(800) 645-7365
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August 21, 2003

Mr. Binyoti F. Amungwafor
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Post Office Box 12436
Milwaukee, Wisconsin 53212-0436

Reference: *Site Investigation Status Update/Site Investigation Completion*
Decorah Shopping Center Annex
1011-1025 South Main Street
West Bend, Wisconsin
WDNR FID #: 267161400
WDNR BRRTS #: 02-67-151266

KEY ENGINEERING GROUP, LTD.
File No. 0702007

Dear Mr. Amungwafor:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with the results of recent soil, groundwater and soil vapor sample analytical results for the above referenced site and to document the completion of the site investigation (SI). This letter was prepared by Key Engineering Group, Ltd. (KEY) on behalf of Continental VI Fund Limited Partnership (Continental).

PROJECT BACKGROUND

The site history and previous site investigation activities are documented in the following KEY correspondence:

- *Site Investigation Work Plan*, February 3, 1998.
- *Changes to Site Investigation Work Plan*, March 24, 1998.
- *Off-Site Access Considerations*, August 10, 1998.
- *Project Status Update*, September 2, 1998.
- *Project Status Update*, November 16, 1998.
- *Site Investigation Report*, April 8, 1999.
- *Supplemental Case Closure Rationale*, July 22, 1999.
- *Supplemental Site Investigation Report*, January 18, 2000.
- *Project Status Update*, April 25, 2000.
- *Request for Case Closure*, January 9, 2001.
- *Response to WDNR Letter*, March 29, 2001.

- *Response to WDNR Letter and Meeting Documentation*, April 3, 2001.
- *Additional Site Investigation Results*, May 29, 2001.
- *Project Status Update*, October 30, 2001.
- *Project Status Update*, April 11, 2002.
- *Conference Call Documentation*, May 13, 2002.
- *Soil Vapor Screening Work Plan*, March 4, 2003.
- *Project Status Update*, April 15, 2003.
- *Revised Site Investigation Work Scope*, May 2, 2003.
- *Soil Vapor Investigation Results*, August 11, 2003.

ADDITIONAL SOIL AND GROUNDWATER SITE INVESTIGATION RESULTS

The following activities have been conducted pursuant to KEY's May 2, 2003 *Revised Site Investigation Work Scope* and the WDNR's May 9, 2003 approval letter:

- June 3, 2003: Three soil borings (B-27, B-28 and B-29) were advanced in Birchwood Drive and converted to two groundwater monitoring wells (MW-22 and MW-23) and one piezometer (P-5). One soil sample was collected from soil borings B-27 and B-28 and submitted for laboratory analysis of volatile organic compounds (VOCs). Soil boring B-29 was installed adjacent to soil boring B-28 and was "blind drilled" to the depth of B-28 (approximately 25 feet below ground surface (bgs)). Soil boring B-29 was then advanced to a final depth of approximately 39.5 feet bgs with split-spoon samples collected at 2.5-foot intervals. The newly installed groundwater monitoring wells and piezometer were also surveyed relative to the existing groundwater monitoring well network.
- June 10, 2003: Depth to groundwater measurements were collected from each monitoring well/piezometer in the site groundwater monitoring well network. The newly installed monitoring wells and piezometer were developed and sampled for laboratory analysis of VOCs. Additionally, groundwater samples were collected from monitoring wells MW-1, MW-13 and MW-23 for field and laboratory analysis of natural attenuation indicator parameters, total iron, dissolved iron, total manganese, dissolved manganese, sulfate, nitrate, dissolved oxygen, specific conductivity, resistivity, salinity, oxidation-reduction potential and pH.

The monitoring well and piezometer locations are depicted on Figure 1. The soil boring logs, monitoring well construction forms and well development forms are included as Attachment 1. The additional site investigation procedures were conducted in general accordance with KEY's February 3, 1998 *Site Investigation Work Plan*.

The soil sample analytical results are summarized in Table 1, and the laboratory analytical report is included as Attachment 2. The soil sample analytical results indicated that no VOCs were detected at concentrations above laboratory detection limits in soil borings B-27 and B-28.

The depth to groundwater ranged from approximately 7 to 25 feet bgs. Groundwater elevation data is summarized on Table 2, and a groundwater elevation contour map from the June 2003 groundwater sampling event is depicted on Figure 1. Based on the groundwater elevation contour map, the site-specific groundwater flow direction is toward the northeast with an average gradient of approximately 0.008 feet per foot.

The groundwater sample analytical results are summarized in Table 3 and on Figure 3, and the laboratory analytical report is included as Attachment 3. The groundwater sample analytical results indicated that

tetrachloroethene (PCE) and trichloroethene (TCE) were not detected at concentrations above laboratory detection limits in MW-22, MW-23 and P-5 (the down gradient edge of the groundwater monitoring well network).

Natural attenuation indicator parameter data are summarized on Table 3. The natural attenuation indicator parameter data indicated that conditions within the groundwater contaminant plume are not favorable for anaerobic biodegradation.

SOIL VAPOR INVESTIGATION AND ANALYTICAL RESULTS

Soil vapor samples were collected from three soil probes (GP-23, GP-24 and GP-25) triangulated around the residence determined to be at the greatest risk from indoor intrusion of soil vapors (in the vicinity of the highest groundwater concentrations of PCE and TCE) on June 10, 2003. The soil probes were advanced to depths ranging from 7 to 9 feet bgs. Temporary vapor sampling wells were constructed and set at a final depth of approximately 1 foot above the groundwater level. The soil probe and vapor sampling well locations are depicted on Figure 1. The soil probe installations are documented on soil boring logs included as Attachment 4.

Composite soil vapor samples were collected from each temporary vapor well over a 6-hour time period utilizing a Summa canister. Collected soil vapor samples were submitted to Severn Trent Laboratories, Inc. (STL) for laboratory analysis of VOCs utilizing United States Environmental Protection Agency Method TO-15. The STL laboratory analytical report is included as Attachment 5.

The soil vapor sample analytical results indicated that PCE was detected at vapor well GP-24 and GP-25 at concentrations of 1.1 parts per billion volume (ppbv) and 1.2 ppbv, respectively. The vapor sample analytical results also indicated that TCE was detected at vapor well GP-24 and GP-25 at concentrations of 0.73 ppbv and 0.80 ppbv, respectively. No other compounds were detected at concentrations above laboratory detection limits at vapor wells GP-24 and GP-25. The soil vapor sample analytical results also indicated that no VOCs were detected above laboratory detection limits in vapor well GP-23.

The soil vapor sample analytical results for vapor wells GP-23 through GP-25 were evaluated utilizing the *Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings* (JE Model). The JE Model indicated that the Incremental Risk Screening Factors for PCE and TCE in vapor wells GP-23 through GP-25 ranged from approximately 2 to 4 orders of magnitude below the established acceptable risk screening factor of 1×10^{-6} .

The soil vapor sample analytical results and JE Model results are summarized in Table 4. The JE Model calculation documentation is included as Attachment 6.

SITE INVESTIGATION CONCLUSIONS

Based on the results of the June 2003 groundwater sample analytical results, the degree and extent of the groundwater contaminant plume has been defined. The extent of the PCE groundwater contaminant plume is depicted on Figure 4. Additionally, sufficient evaluation of the risk of soil vapor intrusion into residences located within the groundwater contaminant plume has been conducted. Based on the results of the soil vapor evaluation, there is not a complete pathway for PCE and TCE vapor intrusion, and therefore, no significant human health risk present. Based on the previous SI results and the results of the June 2003 soil, groundwater and soil vapor sample analytical results, the degree and extent of contamination has been defined in accordance with NR 716, and the site investigation has been completed.

Mr. Binyoti F. Amungwafor
August 21, 2003
Page 4

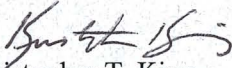
REMEDIAL ACTION OPTIONS EVALUATION

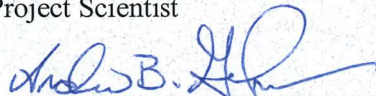
Remedial action options will be evaluated and proposed under separate cover.

Please contact KEY if you have any questions.

Sincerely,

KEY ENGINEERING GROUP, LTD.


Kristopher T. King
Project Scientist


Andrew B. Graham, PE, PG, CHMM
Senior Engineer

KTK/clh

Attachments:	Table 1	Summary of Soil Sample Analytical Results
	Table 2	Summary of Groundwater Elevation Data
	Table 3	Summary of Groundwater Sample Analytical Results
	Table 4	Summary of Soil Vapor Sample Analytical Results
	Figure 1	Site Vicinity Layout
	Figure 2	Groundwater Elevation Contour Map (June 10, 2003)
	Figure 3	Summary of Groundwater Sample Analytical Results
	Figure 4	PCE Isoconcentration Contour Map
	Attachment 1	Soil Boring Logs (Form 4400-122) Monitoring Well Construction Forms (Form 4400-113A) Monitoring Well Development Forms (Form 4400-113B)
	Attachment 2	Soil Sample Laboratory Analytical Report
	Attachment 3	Groundwater Sample Laboratory Analytical Report
	Attachment 4	Soil Vapor Investigation Boring Logs (Form 4400-122)
	Attachment 5	Soil Vapor Laboratory Analytical Report
	Attachment 6	Johnson & Ettinger Model Documentation

cc: Ms. Mary Mokwa, Continental VI Fund Limited Partnership
Mr. Donald P. Gallo, Reinhart, Boerner & Van Deuren, S.C.

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

	B-1		B-2	B-3	B-4		B-5		GP-7		GP-8		GP-9	GP-10		GP-11	GP-12	GP-13	GRCL
Depth (feet)	1-3	6-8	3.5-5.5	1-3	1-3	6-8	1-3	6-8	2-4	8-10	2-4	8-10	4-6	2-4	8-10	5-7	7-9	7-9	NE
Date	4/1/98	4/1/98	4/1/98	4/1/98	4/1/98	4/1/98	4/1/98	4/1/98	10/23/98	10/23/98	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	NE
PID (i.u.)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NE
Detected VOCs (µg/kg)																			
1,2,3-Trichlorobenzene	30	34	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NE
Trimethylbenzenes	99	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	NE
Naphthalene	51	36 (Q)	50	38 (Q)	42	<25	42	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	400 ¹
Xylenes	<50	35	<50	<50	<50	<50	<50	<50	<50	<50	<75	<75	<75	<75	<75	<75	<75	<75	4,100
MTBE	<25	43	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NE
Tetrachloroethene	<25	<25	<25	<25	79	212	31	<25	<25	107	240	120	<25	87	1,400	340	620	60	1839 ²
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	28	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.5
Toluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,500

Notes:

¹ - WDNR interim guidance

² - Site specific residual contaminant level based on the protection of groundwater (*Supplemental Site Investigation Report*, KEY, January 18, 2000)

Bold concentrations exceed NR 720 GRCL

GRCL - NR 720 generic residual contaminant level based on the protection of groundwater

i.u. - instrument units

MTBE - methyl tert-butyl ether

NE - not established

PID - photoionization detector

Q - concentration detected between laboratory limit of quantitation and limit of detection

µg/kg - micrograms per kilogram

VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX

1011-1025 South Main Street

West Bend, Wisconsin

	B-10	GP-14	GP-15	P-3	B-15	B-16	B-17	B-18	B-19	GP-16	GP-17	GP-18	GP-19	GP-20	GP-21	GP-22	GRCL
Depth (feet)	6-7.5	6-8	6-8	3.5-5	6-7.5	3.5-5.5	3.5-5.5	3.5-5.5	3.5-5.5	0-4	0-4	0-4	0-4	0-4	0-4	0-4	NE
Date	8/18/00	11/3/00	11/3/00	4/11/01	9/12/01	10/31/01	10/31/01	10/31/01	10/31/01	9/27/02	9/27/02	9/27/02	9/27/02	9/27/02	9/27/02	9/27/02	NE
PID (i.u.)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	NE
Detected VOCs ($\mu\text{g}/\text{kg}$)																	
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NE
Trimethylbenzenes	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	NE
Naphthalene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	400 ¹
Xylenes	<75	<75	<75	<75	<75	<75	<75	<75	<75	<50	<50	<50	<50	<50	<50	<50	4,100
MTBE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NE
Tetrachloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	77	<25	32 Q	<25	<25	<25	<25	1839 ²
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.5
Toluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,500

Notes:

¹ - WDNR interim guidance² - Site specific residual contaminant level based on the protection of groundwater
(Supplemental Site Investigation Report, KEY, January 18, 2000)

Bold concentrations exceed NR 720 GRCL

GRCL - NR 720 generic residual contaminant level based on the protection of groundwater

i.u. - instrument units

MTBE - methyl tert-butyl ether

NE - not established

PID - photoionization detector

Q - concentration detected between laboratory limit of quantitation and limit of detection

 $\mu\text{g}/\text{kg}$ - micrograms per kilogram

VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

	B-20	B-21		B-22		B-23		B-24	B-25		B-26		B-27	B-28	GRCL
Depth (feet)	8.5-10.5	8.5-10.5	13.5-15.5	11-13	16-18	8.5-10.5	16-18	28-30	18.5-20.5	23.5-25.5	21-23	26-28	5-7	12.5-14.5	NE
Date	3/11/03	3/11/03	3/11/03	3/11/03	3/11/03	3/11/03	3/11/03	3/11/03	3/12/03	3/12/03	3/12/03	3/12/03	6/3/03	6/3/03	NE
PID (i.u.)	4	4	<1	5	3	<1	4	<1	<1	<1	<1	<1	<1	<1	NE
Detected VOCs (µg/kg)															
1,2,3-Trichlorobenzene	<27	<26	<30	<30	<32	<29	<30	<31	<27	<32	<26	<32	<27	<26	NE
Trimethylbenzenes	<54	<52	<60	<60	<64	<58	<60	<62	<54	<64	<52	<64	<54	<52	NE
Naphthalene	<27	<26	<30	<30	<32	<29	<30	<31	<27	<32	<26	<32	<27	<26	400 ¹
Xylenes	<38	<37	<42	<42	<44	<40	<41	<43	<38	<45	<37	<44	<38	<37	4,100
MTBE	<27	<26	<30	<30	<32	<29	<30	<31	<27	<32	<26	<32	<27	<26	NE
Tetrachloroethene	<27	<26	94	<30	<32	<29	86	<31	<27	69	<26	<32	<27	<26	1839 ²
Benzene	<27	<26	<30	<30	<32	<29	<30	<31	<27	<32	<26	<32	<27	<26	5.5
Toluene	67	52	<30	36	<32	<29	<30	74	<27	<32	<26	<32	<27	<26	1,500

Notes:

¹ - WDNR interim guidance

² - Site specific residual contaminant level based on the protection of groundwater
(Supplemental Site Investigation Report, KEY, January 18, 2000)

Bold concentrations exceed NR 720 GRCL

GRCL - NR 720 generic residual contaminant level based on the protection of groundwater

i.u. - instrument units

MTBE - methyl tert-butyl ether

NE - not established

PID - photoionization detector

Q - concentration detected between laboratory limit of quantitation and limit of detection

µg/kg - micrograms per kilogram

VOCs - volatile organic compounds

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA

DECORAH SHOPPING CENTER ANNEX
 1011-1025 South Main Street
 West Bend, Wisconsin

WELL NO.	TOP OF PVC ELEVATION (feet MSL)	DATE	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (feet MSL)
MW-1	936.97	11/5/01	8.00	928.97
		11/15/01	8.27	928.70
		1/22/02	8.81	928.16
		3/19/03	9.29	927.68
		6/10/03	7.95	929.02
MW-2	936.23	11/5/01	6.64	929.59
		11/15/01	6.82	929.41
		1/22/02	7.19	929.04
		3/19/03	7.50	928.73
		6/10/03	6.45	929.78
MW-3	935.80	11/5/01	9.61	926.19
		11/15/01	9.76	926.04
		1/22/02	---	---
		3/19/03	10.39	925.41
		6/10/03	9.66	926.14
MW-4	935.66	11/5/01	9.88	925.78
		11/15/01	10.03	925.63
		1/22/02	10.35	925.31
		3/19/03	11.04	924.62
		6/10/03	10.22	925.44
MW-5	933.23	11/5/01	7.50	925.73
		11/15/01	7.65	925.58
		1/22/02	8.01	925.22
		3/19/03	8.63	924.60
		6/10/03	7.75	925.48
MW-6	935.83	11/5/01	9.24	926.59
		11/15/01	9.44	926.39
		1/22/02	9.77	926.06
		3/19/03	10.08	925.75
		6/10/03	9.30	926.53
MW-7	933.16	11/5/01	7.54	925.62
		11/15/01	7.68	925.48
		1/22/02	7.99	925.17
MW-8	932.27	11/5/01	7.07	925.20
		11/15/01	7.90	924.37
		1/22/02	7.58	924.69
		3/19/03	8.31	923.96
		6/10/03	7.36	924.91
MW-9	933.07	11/5/01	7.72	925.35
		11/15/01	7.88	925.19
		1/22/02	8.18	924.89
		3/19/03	8.93	924.14
		6/10/03	8.02	925.05
MW-10	932.84	11/5/01	7.47	925.37
		11/15/01	7.62	925.22
		1/22/02	7.96	924.88
		3/19/03	8.89	923.95
		6/10/03	7.87	924.97

Notes:

* - Monitoring well installed in connection with Matanaer Auto Service property
 Benchmark: hydrant rim nut at 851 South Main Street (937.34)
 MSL - mean sea level

TABLE 2 (CONTINUED)

SUMMARY OF GROUNDWATER ELEVATION DATA

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

WELL NO.	TOP OF PVC ELEVATION (feet MSL)	DATE	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (feet MSL)
MW-11	933.69	11/5/01	8.87	924.82
		11/15/01	---	---
		1/22/02	9.38	924.31
		3/19/03	10.38	923.31
		6/10/03	9.32	924.37
MW-12	932.27	11/5/01	7.02	925.25
		11/15/01	7.15	925.12
		1/22/02	7.46	924.81
		3/19/03	8.14	924.13
		6/10/03	7.24	925.03
MW-13	932.57	11/5/01	8.18	924.39
		11/15/01	8.00	924.57
		1/22/02	8.44	924.13
		3/19/03	9.50	923.07
		6/10/03	8.47	924.10
MW-14	932.75	11/5/01	11.15	921.60
		11/15/01	11.11	921.64
		1/22/02	11.44	921.31
		3/19/03	12.35	920.40
		6/10/03	11.84	920.91
MW-15	931.59	11/5/01	9.89	921.70
		11/15/01	9.94	921.65
		1/22/02	10.22	921.37
		3/19/03	11.06	920.53
		6/10/03	10.47	921.12
MW-16	933.20	3/19/03	10.53	922.67
		6/10/03	9.43	923.77
MW-17	933.87	3/19/03	11.33	922.54
		6/10/03	10.37	923.50
MW-18	935.10	3/19/03	14.83	920.27
		6/10/03	14.54	920.56
MW-19	934.28	3/19/03	13.60	920.68
		6/10/03	13.13	921.15
MW-20	939.35	3/19/03	20.92	918.43
		6/10/03	21.07	918.28
MW-21	943.45	3/19/03	24.95	918.50
		6/10/03	25.08	918.37
MW-22	924.45	6/10/03	9.96	914.49
MW-23	927.58	6/10/03	17.12	910.46
P-1	935.56	11/5/01	9.70	925.86
		11/15/01	9.84	925.72
		1/22/02	10.18	925.38
		3/19/03	10.93	924.63
		6/10/03	10.65	924.91
P-2	935.66	11/5/01	8.60	927.06
		11/15/01	9.23	926.43
		1/22/02	9.53	926.13
		3/19/03	9.84	925.82
		6/10/03	9.65	926.01
P-3	931.82	11/5/01	6.45	925.37
		11/15/01	6.55	925.27
		1/22/02	6.60	925.22
		3/19/03	7.44	924.38
		6/10/03	6.90	924.92
P-4	933.76	3/19/03	13.53	920.23
		6/10/03	13.16	920.60
P-5	927.59	6/10/03	17.83	909.76
MW-4 *	932.89	1/22/02	8.01	924.88
MW-7*	933.92	1/22/02	8.80	925.12

Notes:

* - Monitoring well installed in connection with Matanaer Auto Service property
Benchmark: hydrant rim nut at 851 South Main Street (937.34)
MSL - mean sea level

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
 1011-1025 South Main Street
 West Bend, Wisconsin

Date	MW-1					MW-2				MW-3							NR 140			
	4/7/98	7/31/98	10/8/99	3/19/03	6/10/03	4/7/98	7/31/98	10/8/99	3/19/03	4/7/98	7/31/98	10/8/99	3/31/00	8/31/00	12/4/00	4/12/01	11/5/01	3/19/03	ES	PAL
Detected VOCs (µg/l)																				
Trimethylbenzenes	<0.5	<0.5	<0.70	<0.50	---	0.3 (Q)	<0.5	<0.70	<0.50	0.2	<0.5	<0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	480	96
Benzene	<0.2	<0.2	<0.25	<0.25	---	0.3 (Q)	0.2 (Q)	<0.25	<0.25	<0.2	<0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
Toluene	<0.3	<0.3	<0.38	<0.25	---	<0.3	<0.3	<0.38	<0.25	<0.3	<0.3	<0.38	<0.22	<0.22	<0.22	<0.22	<0.22	<0.25	1,000	200
Ethylbenzene	<0.2	<0.2	<0.32	<0.50	---	0.3 (Q)	<0.2	<0.32	<0.50	<0.2	<0.2	<0.32	<0.12	<0.12	<0.12	<0.12	<0.12	<0.50	700	140
Xylenes	<0.6	<0.6	<1.04	<0.50	---	1.0 (Q)	<0.6	<1.04	<0.50	0.5 (Q)	<0.6	<1.04	<0.74	<0.74	<0.74	<0.74	<0.74	<0.50	10,000	1,000
MTBE	0.5 (Q)	<0.2	<0.21	<0.50	---	<0.2	<0.2	<0.21	<0.50	<0.2	<0.2	<0.21	<0.53	<0.53	<0.53	<0.53	<0.53	<0.50	60	12
Isopropylbenzene	<0.2	<0.2	<0.33	<0.25	---	0.4 (Q)	<0.2	<0.33	<0.25	<0.2	<0.2	<0.33	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	NE	NE
n-Butylbenzene	<0.2	<0.2	<0.43	<0.25	---	0.4 (Q)	<0.2	<0.43	<0.25	<0.2	<0.2	<0.43	<0.29	<0.29	<0.29	<0.29	<0.29	<0.25	NE	NE
n-Propylbenzene	<0.3	<0.3	<0.36	<0.50	---	0.3 (Q)	<0.3	<0.36	<0.50	<0.3	<0.3	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.50	NE	NE
Naphthalene	<0.5	<0.5	<0.73	<0.25	---	0.7 (Q)	<0.5	<0.73	<0.25	0.7 (Q)	<0.5	<0.73	<0.68	<0.68	<0.68	<0.68	<0.68	<0.25	40	8
Chloroform	<0.30	<0.30	<0.26	<0.25	---	<0.30	<0.30	<0.26	<0.25	<0.30	<0.30	<0.26	<0.32	<0.32	<0.32	<0.32	<0.32	<0.25	6	0.6
Chloromethane	<0.8	<0.8	<0.29	<0.25	---	<0.8	<0.8	<0.29	<0.25	<0.8	<0.8	<0.29	<0.24	0.72 (Q)	<0.24	<0.24	<0.24	<0.25	3	0.3
cis-1,2-Dichloroethene	<0.2	<0.2	<0.34	<0.50	---	<0.2	<0.2	<0.34	<0.50	<0.2	<0.2	<0.34	<1	<1	<1	<1	<1	<0.50	70	7
trans-1,2-Dichloroethene	<0.20	<0.20	<0.46	<0.50	---	<0.20	<0.20	<0.46	<0.50	<0.20	<0.20	<0.46	<0.23	<0.23	<0.23	<0.23	<0.23	<0.50	100	20
Tetrachloroethene	<0.3	<0.3	<0.56	<0.50	---	<0.3	<0.3	<0.56	<0.50	<0.3	1.6	1.3 (Q)	0.43 (Q)	1.1	0.33 (Q)	0.33 (Q)	<0.25	<0.50	5	0.5
Trichloroethene	<0.2	<0.2	<0.39	<0.25	---	<0.2	<0.2	<0.39	<0.25	<0.2	<0.2	<0.39	<0.36	<0.36	<0.36	<0.36	<0.36	<0.25	5	0.5
Natural Attenuation Parameters																				
Nitrate (mg/l)	---	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate (mg/l)	---	---	---	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Iron	---	---	---	<0.042	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Iron	---	---	---	1.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Manganese	---	---	---	0.32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Manganese	---	---	---	0.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
D.O. (mg/l)	---	---	---	2.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Specific Conductance (uS/cm)	---	---	---	7,411	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Resistivity (Ko/cm)	---	---	---	0.135	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Salinity (g/l)	---	---	---	4.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (s.u.)	---	---	---	6.98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
O.R.P. (mv)	---	---	---	351	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

- Bold concentrations exceed NR 140 PAL
- Shaded concentrations exceed NR 140 ES
- D.O. - dissolved oxygen
- ES - NR 140 enforcement standard
- g/l - grams per liter
- Ko/cm - kilohoms per centimeter
- mg/l - milligrams per liter
- MTBE - methyl tert-butyl ether
- mv - millivolts
- NE - not established
- O.R.P. - oxygen reduction potential
- PAL - NR 140 preventive action limit
- Q - concentration detected between laboratory limit of quantitation and limit of detection
- s.u. - standard units
- µg/l - micrograms per liter
- uS/cm - microsiemens per centimeter
- VOCs - volatile organic compounds

TABLE 3 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

Date	MW-4								MW-5								MW-6								NR 140			
	4/7/98	7/31/98	10/8/99	3/31/00	8/31/00	12/4/00	4/12/01	3/19/03	2/9/99	10/8/99	12/3/99	3/31/00	8/31/00	12/4/00	4/12/01	11/5/01	3/19/03	10/8/99	3/31/00	8/31/00	12/4/00	4/12/01	11/5/01	3/19/03	ES	PAL		
Detected VOCs (µg/l)																												
Trimethylbenzenes	<0.5	<0.5	<0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.70	<0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	480	96
Benzene	<0.2	<0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.52 (Q)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5	
Toluene	<0.3	<0.3	<0.38	<0.22	<0.22	<0.22	<0.22	<0.25	<0.3	<0.38	<0.38	<0.22	<0.22	<0.22	<0.22	<0.25	1.2 (Q)	<0.22	<0.22	<0.22	0.39 (Q)	<0.22	<0.25	<0.25	1,000	200		
Ethylbenzene	<0.2	<0.2	<0.32	<0.12	<0.12	<0.12	<0.12	<0.50	<0.2	<0.32	<0.32	<0.12	<0.12	<0.12	<0.12	<0.50	1.9	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.50	700	140		
Xylenes	<0.6	<0.6	<1.04	<0.74	<0.74	<0.74	<0.74	<0.50	<0.6	<1.04	<1.04	<0.74	<0.74	<0.74	<0.74	<0.50	7.2	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.50	10,000	1,000		
MTBE	<0.2	<0.2	<0.21	<0.53	<0.53	<0.53	<0.53	<0.50	<0.2	<0.21	<0.21	<0.53	<0.53	<0.53	<0.53	<0.50	<0.21	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.50	60	12		
Isopropylbenzene	<0.2	<0.2	<0.33	<0.15	<0.15	<0.15	<0.15	<0.25	<0.2	<0.33	<0.33	<0.15	<0.15	<0.15	<0.15	<0.25	<0.33	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	NE	NE		
n-Butylbenzene	<0.2	<0.2	<0.43	<0.29	<0.29	<0.29	<0.29	<0.25	<0.2	<0.43	<0.43	<0.29	<0.29	<0.29	<0.29	<0.25	0.49 (Q)	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.25	NE	NE		
n-Propylbenzene	<0.3	<0.3	<0.36	<0.18	<0.18	<0.18	<0.18	<0.50	<0.3	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.50	0.82 (Q)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.50	NE	NE		
Naphthalene	<0.5	<0.5	<0.73	<0.68	<0.68	<0.68	<0.68	<0.25	<0.5	<0.73	<0.73	<0.68	<0.68	<0.68	<0.68	<0.25	1.1 (Q)	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.25	40	8		
Chloroform	<0.30	<0.30	<0.26	<0.32	<0.32	<0.32	<0.32	<0.25	<0.30	<0.26	<0.26	<0.32	<0.32	<0.32	<0.32	<0.25	<0.26	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.25	6	0.6		
Chloromethane	<0.8	<0.8	<0.29	<0.24	0.8	0.49 (Q)	<0.24	<0.25	<0.8	<0.29	<0.29	<0.24	<0.24	11	<0.24	<0.24	<0.29	<0.24	0.48 (Q)	17	<0.24	<0.24	<0.24	<0.25	3	0.3		
cis-1,2-Dichloroethene	<0.2	<0.2	<0.34	<1	<1	<1	<1	<0.50	<0.2	<0.34	<0.34	<1	<1	<1	<1	<0.50	0.98 (Q)	<1	<1	<1	<1	<1	<1	<0.50	70	7		
trans-1,2-Dichloroethene	<0.20	<0.20	<0.46	<0.23	<0.23	<0.23	<0.23	<0.50	<0.20	<0.46	<0.46	<0.23	<0.23	<0.23	<0.23	<0.50	<0.46	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.50	100	20		
Tetrachloroethene	1.9	0.6 (Q)	<0.56	<0.25	<0.25	<0.25	<0.25	<0.50	2.5	13	4	12	12	18	6.6	14	1.4	4.1	3.4	2.5	3.2	3.8	1.8	1.7	5	0.5		
Trichloroethene	<0.2	<0.2	<0.39	<0.36	<0.36	<0.36	<0.36	<0.25	0.6	0.5 (Q)	0.9 (Q)	0.81 (Q)	1 (Q)	0.9 (Q)	0.48 (Q)	0.48 (Q)	0.53	<0.39	<0.36	<0.36	<0.36	<0.36	<0.36	<0.25	5	0.5		
Natural Attenuation Parameters																												
Nitrate (mg/l)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Sulfate (mg/l)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Dissolved Iron	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Total Iron	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Dissolved Manganese	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Total Manganese	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
D.O. (mg/l)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Specific Conductance (uS/cm)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Resistivity (Kw/cm)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
Salinity (g/l)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
pH (s.u.)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		
O.R.P. (mv)	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***		

Notes:

- Bold concentrations exceed NR 140 PAL
- Shaded concentrations exceed NR 140 ES
- D.O. - dissolved oxygen
- ES - NR 140 enforcement standard
- g/l - grams per liter
- Kw/cm - kilohms per centimeter
- mg/l - milligrams per liter
- MTBE - methyl tert-butyl ether
- mv - millivolts
- NE - not established
- O.R.P. - oxygen reduction potential
- PAL - NR 140 preventive action limit
- Q - concentration detected between laboratory limit of quantitation and limit of detection
- s.u. - standard units
- µg/l - micrograms per liter
- uS/cm - microsiemens per centimeter
- VOCs - volatile organic compounds

TABLE 3 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

Date	MW-7				MW-8				MW-9				MW-10				MW-11			MW-12		NR 140	
	9/20/00	12/4/00	4/12/01	11/5/01	4/12/01	4/30/01	11/5/01	3/19/03	4/12/01	4/30/01	11/5/01	3/19/03	4/12/01	4/30/01	11/5/01	3/19/03	9/14/01	11/5/01	3/19/03	11/5/01	3/19/03	ES	PAL
Detected VOCs (µg/l)																							
Trimethylbenzenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	480	96
Benzene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
Toluene	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.25	<0.22	<0.22	<0.22	<0.25	<0.22	<0.22	<0.22	<0.25	<0.22	<0.22	<0.25	<0.22	<0.25	1,000	200
Ethylbenzene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.50	<0.12	<0.12	<0.12	<0.50	<0.12	<0.12	<0.12	<0.50	<0.12	<0.12	<0.50	<0.12	<0.50	700	140
Xylenes	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.50	<0.74	<0.74	<0.74	<0.50	<0.74	<0.74	<0.74	<0.50	<0.74	<0.74	<0.50	<0.74	<0.50	10,000	1,000
MTBE	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.50	<0.53	<0.53	<0.53	<0.50	<0.53	<0.53	<0.53	<0.50	<0.53	<0.53	<0.50	<0.53	<0.50	60	12
Isopropylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.15	<0.15	<0.25	<0.15	<0.15	<0.15	<0.25	<0.15	<0.15	<0.25	<0.15	<0.25	NE	NE
n-Butylbenzene	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.25	<0.29	<0.29	<0.29	<0.25	<0.29	<0.29	<0.29	<0.25	<0.29	<0.29	<0.25	<0.29	<0.25	NE	NE
n-Propylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.50	<0.18	<0.18	<0.18	<0.50	<0.18	<0.18	<0.18	<0.50	<0.18	<0.18	<0.50	<0.18	<0.50	NE	NE
Naphthalene	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.25	<0.68	<0.68	<0.68	<0.25	<0.68	<0.68	<0.68	<0.25	<0.68	<0.68	<0.25	<0.68	<0.25	40	8
Chloroform	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.25	<0.32	<0.32	<0.32	<0.25	<0.32	<0.32	<0.32	<0.25	<0.32	0.39 (Q)	<0.25	<0.32	<0.25	6	0.6
Chloromethane	<0.24	0.55 (Q)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	<0.24	<0.24	<0.24	<0.25	<0.24	<0.24	<0.24	<0.25	1.8	<0.24	<0.25	<0.24	<0.25	3	0.3
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<0.50	<1	<1	<1	0.67	<1	<1	<1	<0.50	<1	<1	<0.50	<1	<0.50	70	7
trans-1,2-Dichloroethene	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.50	<0.23	<0.23	0.25 (Q)	<0.50	<0.23	<0.23	<0.23	<0.50	<0.23	<0.23	<0.50	<0.23	<0.50	100	20
Tetrachloroethene	4.7	3.3	3.4	4.4	3.5	4.3	5.6	4.2	3.1	3.8	4.2	0.84	8.2	5	6.4	4.1	8.7	10	5.3	<0.25	<0.50	5	0.5
Trichloroethene	2.4	2.3	2.2	3.2	1.1 (Q)	1.2 (Q)	2.3	1.2	3	1.6	8.9	11	1.9	0.76 (Q)	0.61 (Q)	0.53	2.8	1.5	1.3	<0.36	<0.25	5	0.5
Natural Attenuation Parameters																							
Nitrate (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Manganese	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Manganese	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
D.O. (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Specific Conductance (µS/cm)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Resistivity (KΩ/cm)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Salinity (g/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (s.u.)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
O.R.P. (mv)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

- Bold concentrations exceed NR 140 PAL
- Shaded concentrations exceed NR 140 ES
- D.O. - dissolved oxygen
- ES - NR 140 enforcement standard
- g/l - grams per liter
- KΩ/cm - kilohms per centimeter
- mg/l - milligrams per liter
- MTBE - methyl tert-butyl ether
- mv - millivolts
- NE - not established
- O.R.P. - oxygen reduction potential
- PAL - NR 140 preventive action limit
- Q - concentration detected between laboratory limit of quantitation and limit of detection
- s.u. - standard units
- µg/l - micrograms per liter
- µS/cm - microsiemens per centimeter
- VOCs - volatile organic compounds

TABLE 3 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

Date	MW-13			MW-14		MW-15		MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	NR 140	
	11/5/01	3/19/03	6/10/03	11/5/01	3/19/03	11/5/01	3/19/03	3/19/03	3/19/03	3/19/03	3/19/03	3/19/03	3/19/03	6/10/03	6/10/03	ES	PAL
Detected VOCs (µg/l)																	
Trimethylbenzenes	<5.0	<0.50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	480	96
Benzene	<2.5	<0.25	---	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
Toluene	<2.2	<0.25	---	<0.22	<0.25	<0.22	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1,000	200
Ethylbenzene	<1.2	<0.50	---	<0.12	<0.50	<0.12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	700	140
Xylenes	<7.4	<0.50	---	<0.74	<0.50	<0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10,000	1,000
MTBE	<5.3	<0.50	---	<0.53	<0.50	<0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	60	12
Isopropylbenzene	<1.5	<0.25	---	<0.15	<0.25	<0.15	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NE	NE
n-Butylbenzene	<2.9	<0.25	---	<0.29	<0.25	<0.29	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NE	NE
n-Propylbenzene	<1.8	<0.50	---	<0.18	<0.50	<0.18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NE	NE
Naphthalene	<6.8	<0.25	---	<0.68	<0.25	<0.68	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	40	8
Chloroform	<3.2	<0.25	---	<0.32	<0.25	0.77 (Q)	<0.25	<0.25	7.9	5.8	<0.25	2.1	<0.25	<0.25	0.91	6	0.6
Chloromethane	<2.4	<0.25	---	<0.24	<0.25	<0.24	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.63	3	0.3
cis-1,2-Dichloroethene	<10	<0.50	---	<1	0.68	<1	<0.50	0.58	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	70	7
trans-1,2-Dichloroethene	<2.3	<0.50	---	<0.23	<0.50	<0.23	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	100	20
Tetrachloroethene	1,000	530	---	77	14	<0.25	<0.50	27	0.66	<0.50	59	50	3.0	<0.50	<0.50	5	0.5
Trichloroethene	12	8.9	---	<0.36	0.45	<0.36	<0.25	6.7	<0.25	<0.25	2.0	<0.25	<0.25	<0.25	<0.25	5	0.5
Natural Attenuation Parameters																	
Nitrate (mg/l)	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	4.8	---	---
Sulfate (mg/l)	---	---	56	---	---	---	---	---	---	---	---	---	---	---	32	---	---
Dissolved Iron	---	---	<0.042	---	---	---	---	---	---	---	---	---	---	---	<0.042	---	---
Total Iron	---	---	1.7	---	---	---	---	---	---	---	---	---	---	---	1.4	---	---
Dissolved Manganese	---	---	0.071	---	---	---	---	---	---	---	---	---	---	---	0.014	---	---
Total Manganese	---	---	0.14	---	---	---	---	---	---	---	---	---	---	---	0.13	---	---
D.O. (mg/l)	---	---	3.07	---	---	---	---	---	---	---	---	---	---	---	6.53	---	---
Specific Conductance (uS/cm)	---	---	5,372	---	---	---	---	---	---	---	---	---	---	---	1,934	---	---
Resistivity (Ko/cm)	---	---	0.186	---	---	---	---	---	---	---	---	---	---	---	0.518	---	---
Salinity (g/l)	---	---	2.96	---	---	---	---	---	---	---	---	---	---	---	1.03	---	---
pH (s.u.)	---	---	7.10	---	---	---	---	---	---	---	---	---	---	---	7.40	---	---
O.R.P. (mv)	---	---	352	---	---	---	---	---	---	---	---	---	---	---	355	---	---

Notes:

Bold concentrations exceed NR 140 PAL

Shaded concentrations exceed NR 140 ES

D.O. - dissolved oxygen

ES - NR 140 enforcement standard

g/l - grams per liter

Ko/cm - kilohoms per centimeter

mg/l - milligrams per liter

MTBE - methyl tert-butyl ether

mv - millivolts

NE - not established

O.R.P. - oxygen reduction potential

PAL - NR 140 preventive action limit

Q - concentration detected between laboratory limit of quantitation and limit of detection

s.u. - standard units

µg/l - micrograms per liter

uS/cm - microsiemens per centimeter

VOCs - volatile organic compounds

TABLE 3 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX
1011-1025 South Main Street
West Bend, Wisconsin

Date	P-1								P-2					P-3			P-4	P-5	NR 140		
	4/7/98	7/31/98	10/8/99	3/31/00	8/31/00	12/4/00	4/12/01	3/19/03	10/8/99	3/31/00	8/31/00	12/4/00	4/12/01	3/19/03	4/12/01	11/5/01	3/19/03	3/19/03	6/10/03	ES	PAL
Detected VOCs (µg/l)																					
Trimethylbenzenes	<0.5	<0.5	<0.70	<0.50	<0.50	<0.50	<0.50	<0.50	8.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	480	96
Benzene	<0.2	<0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.58 (Q)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
Toluene	<0.3	<0.3	<0.38	<0.22	<0.22	<0.22	<0.22	<0.25	1.5	<0.22	<0.22	<0.22	<0.22	<0.25	0.31 (Q)	<0.22	<0.25	<0.25	<0.25	1,000	200
Ethylbenzene	<0.2	<0.2	<0.32	<0.12	<0.12	<0.12	<0.12	<0.50	2.2	<0.12	<0.12	<0.12	<0.12	<0.50	<0.12	<0.12	<0.50	<0.50	<0.50	700	140
Xylenes	<0.6	<0.6	<1.04	<0.74	<0.74	<0.74	<0.74	<0.50	8.7	<0.74	<0.74	<0.74	<0.74	<0.50	<0.74	<0.74	<0.50	<0.50	<0.50	10,000	1,000
MTBE	<0.2	<0.2	<0.21	<0.53	<0.53	<0.53	<0.53	<0.50	<0.21	<0.53	<0.53	<0.53	<0.53	<0.50	<0.53	<0.53	<0.50	<0.50	<0.50	60	12
Isopropylbenzene	<0.2	<0.2	<0.33	<0.15	<0.15	<0.15	<0.15	<0.25	0.35 (Q)	<0.15	<0.15	<0.15	<0.15	<0.25	<0.15	<0.15	<0.25	<0.25	<0.25	NE	NE
n-Butylbenzene	<0.2	<0.2	<0.43	<0.29	<0.29	<0.29	<0.29	<0.25	<0.43	<0.29	<0.29	<0.29	<0.29	<0.25	<0.29	<0.29	<0.25	<0.25	<0.25	NE	NE
n-Propylbenzene	<0.3	<0.3	<0.36	<0.18	<0.18	<0.18	<0.18	<0.50	0.88 (Q)	<0.18	<0.18	<0.18	<0.18	<0.50	<0.18	<0.18	<0.50	<0.50	<0.50	NE	NE
Naphthalene	<0.5	<0.5	<0.73	<0.68	<0.68	<0.68	<0.68	<0.25	0.86 (Q)	<0.68	<0.68	<0.68	<0.68	<0.25	<0.68	<0.68	<0.25	<0.25	<0.25	40	8
Chloroform	<0.30	<0.30	<0.26	<0.32	<0.32	<0.32	<0.32	<0.25	<0.26	<0.32	<0.32	<0.32	<0.32	<0.25	<0.32	<0.32	<0.25	<0.25	<0.25	0.37	0.6
Chloromethane	<0.8	<0.8	<0.29	<0.24	<0.24	<0.24	<0.24	<0.25	<0.29	<0.24	0.56 (Q)	<0.24	<0.24	<0.25	<0.24	<0.24	<0.25	<0.25	<0.25	3	0.3
cis-1,2-Dichloroethene	<0.2	<0.2	<0.34	<1	<1	<1	<1	<0.50	<0.34	<1	<1	<1	<1	<0.50	<1	<1	<0.50	<0.50	<0.50	70	7
trans-1,2-Dichloroethene	<0.20	<0.20	<0.46	<0.23	<0.23	<0.23	<0.23	<0.50	<0.46	<0.23	<0.23	<0.23	<0.23	<0.50	<0.23	<0.23	<0.50	<0.50	<0.50	100	20
Tetrachloroethene	<0.3	<0.3	<0.56	<0.25	<0.25	<0.25	<0.25	<0.50	<0.56	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.50	12	<0.50	5	0.5
Trichloroethene	<0.2	<0.2	<0.39	<0.36	<0.36	<0.36	<0.36	<0.25	<0.39	<0.36	<0.36	<0.36	<0.36	<0.25	<0.36	<0.36	<0.25	2.4	<0.25	5	0.5
Natural Attenuation Parameters																					
Nitrate (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Iron	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Manganese	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Manganese	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
D.O. (mg/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Specific Conductance (uS/cm)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Resistivity (Ko/cm)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Salinity (g/l)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (s.u.)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
O.R.P. (mv)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

- Bold concentrations exceed NR 140 PAL
- Shaded concentrations exceed NR 140 ES
- D.O. - dissolved oxygen
- ES - NR 140 enforcement standard
- g/l - grams per liter
- Ko/cm - kilohms per centimeter
- mg/l - milligrams per liter
- MTBE - methyl tert-butyl ether
- mv - millivolts
- NE - not established
- O.R.P. - oxygen reduction potential
- PAL - NR 140 preventive action limit
- Q - concentration detected between laboratory limit of quantitation and limit of detection
- s.u. - standard units
- µg/l - micrograms per liter
- uS/cm - microsiemens per centimeter
- VOCs - volatile organic compounds

TABLE 4

SUMMARY OF SOIL VAPOR SAMPLE ANALYTICAL RESULTS

DECORAH SHOPPING CENTER ANNEX

1011-1025 South Main Street

West Bend, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION			EPA Soil Gas Screening Level* (1 x 10 ⁻⁶ Risk Factor)				
	GP-23	GP-24	GP-25					
Date Collected	6/10/2003	6/10/2003	6/10/2003					
Depth (feet bgs)	9	7	7					
Approximate Groundwater Depth (feet bgs) [#]	10	8	8					
Detected Soil Vapors (ppbv)				Attenuation Factor				
				2 x 10 ⁻³	1 x 10 ⁻³	7 x 10 ⁻⁴	4 x 10 ⁻⁴	2 x 10 ⁻⁴
Tetrachloroethene	<0.50	1.1	1.2	60	120	170	300	600
Trichloroethene	<0.50	0.73	0.80	2.1	4.1	5.9	10	21
Incremental Risk Screening Factor - PCE**	5.0 x 10 ⁻¹⁰	2.2 x 10 ⁻⁹	2.4 x 10 ⁻⁹	NA	NA	NA	NA	NA
Incremental Risk Screening Factor - TCE**	1.5 x 10 ⁻⁸	4.4 x 10 ⁻⁸	4.9 x 10 ⁻⁸	NA	NA	NA	NA	NA

Notes:

* - From the U.S. Environmental Protection Agency's *Draft Guidance For Evaluating the Vapor Intrusion to Indoor Pathway From Groundwater and Soils*

Table 3c-SG: Soil Gas Screening Levels for Scenario-Specific Vapor Attenuation Factors (α)

** - Calculated utilizing the Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings

[#] - groundwater level measured from the nearest site groundwater quality monitoring well

bgs - below ground surface

NA - not applicable

PCE - tetrachloroethene

ppbv - parts per billion volume

TCE - trichloroethene

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
13.36	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	4.30E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,T_S}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{T_S} (atm·m ³ /mol)	Henry's law constant at ave. soil temperature, H'_{T_S} (unitless)	Vapor viscosity at ave. soil temperature, μ_{T_S} (g/cm·s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	8,557	4.78E-03	2.06E-01	1.75E-04	1.01E-01	13.36

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	4.30E+00	0.10	4.00E+00	1.01E-01	4.00E+02	2.69E+00	2.51E-04	1.08E-03

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)
1.1E-04	4.0E-02

1.1E-04	4.0E-02
---------	---------

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^\circ\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^\circ\text{K}$)	Critical temperature, T_c ($^\circ\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.1E-04	4.0E-02	131.39

END

Decorah Shopping Center Annex
TCE Soil Vapor Analysis
GP-25
DATA ENTRY SHEET

SG-SCREEN
Version 2.0; 04/01

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	4.30E+00			Trichloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_s ($^{\circ}\text{C}$)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	213.36	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{Nc} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
--	--

2.4E-09	NA
---------	----

MESSAGE SUMMARY BELOW:

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc., ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
13.36	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	8.10E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	9,553	7.81E-03	3.36E-01	1.75E-04	9.22E-02	13.36

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(\text{Pe}^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	8.10E+00	0.10	4.00E+00	9.22E-02	4.00E+02	2.96E+00	2.38E-04	1.93E-03

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)
3.0E-06	NA

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^{\circ}\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^{\circ}\text{K}$)	Critical temperature, T_C ($^{\circ}\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	3.0E-06	0.0E+00	165.83

END

Decorah Shopping Center Annex
PCE Soil Vapor Analysis
GP-25
DATA ENTRY SHEET

SG-SCREEN
Version 2.0; 04/0

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	8.10E+00			Tetrachloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_s ($^{\circ}\text{C}$)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	213.36	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_c (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
--	--

4.4E-08	2.3E-05
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MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
13.36	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	3.90E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,Ts}$ (cal/mol)	Henry's law constant at ave. soil temperature, H'_{Ts} ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant at ave. soil temperature, H'_{Ts} (unitless)	Vapor viscosity at ave. soil temperature, μ_{Ts} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	8,557	4.78E-03	2.06E-01	1.75E-04	1.01E-01	13.36

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	3.90E+00	0.10	4.00E+00	1.01E-01	4.00E+02	2.69E+00	2.51E-04	9.78E-04

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)
1.1E-04	4.0E-02

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^\circ\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^\circ\text{K}$)	Critical temperature, T_C ($^\circ\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.1E-04	4.0E-02	131.39

END

Decorah Shopping Center Annex
TCE Soil Vapor Analysis
GP-24
DATA ENTRY SHEET

SG-SCREEN
ersion 2.0; 04/0

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	3.90E+00			Trichloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_s ($^{\circ}\text{C}$)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	213.36	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_c (yrs)	ENTER Averaging time for noncarcinogens, AT_{nc} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
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2.2E-09	NA
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MESSAGE SUMMARY BELOW:

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
13.36	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	7.50E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	9,553	7.81E-03	3.36E-01	1.75E-04	9.22E-02	13.36

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	7.50E+00	0.10	4.00E+00	9.22E-02	4.00E+02	2.96E+00	2.38E-04	1.78E-03

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)
3.0E-06	NA

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^\circ\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^\circ\text{K}$)	Critical temperature, T_c ($^\circ\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	3.0E-06	0.0E+00	165.83

END

Decorah Shopping Center Annex
PCE Soil Vapor Analysis
GP-24
DATA ENTRY SHEET

SG-SCREEN
Version 2.0; 04/01

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	7.50E+00			Tetrachloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_s ($^{\circ}\text{C}$)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	213.36	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_c (yrs)	ENTER Averaging time for noncarcinogens, AT_{nc} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
--	--

1.5E-08	8.1E-06
---------	---------

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc., ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
74.32	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	1.35E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm·m ³ /mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	8,557	4.78E-03	2.06E-01	1.75E-04	1.01E-01	74.32

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(\text{Pe}^f)$ (unitless)	Infinite indoor source attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	1.35E+00	0.10	4.00E+00	1.01E-01	4.00E+02	2.69E+00	2.50E-04	3.38E-04

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)
1.1E-04	4.0E-02

1.1E-04	4.0E-02
---------	---------

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^\circ\text{C}$)	Enthalpy of vaporization at the normal boiling point, ΔH_{vb} (cal/mol)	Normal boiling point, T_B ($^\circ\text{K}$)	Critical temperature, T_C ($^\circ\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	1.1E-04	4.0E-02	131.39

END

Decorah Shopping Center Annex
TCE Soil Vapor Analysis
GP-23
DATA ENTRY SHEET

SG-SCREEN
Version 2.0; 04/01

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	1.35E+00			Trichloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth, L_s (cm)	ENTER Average soil temperature, T_s ($^{\circ}\text{C}$)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	274.32	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_c (yrs)	ENTER Averaging time for noncarcinogens, AT_{nc} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
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5.0E-10	NA
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MESSAGE SUMMARY BELOW:

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^V (cm^3/cm^3)	Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3)	Vadose zone soil intrinsic permeability, k_i (cm^2)	Vadose zone soil relative air permeability, k_{rg} (cm^2)	Vadose zone soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc., ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
74.32	1.346	0.045	5.93E-09	0.977	5.79E-09	4,000	1.70E+00	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s)	Diffusion path length, L_d (cm)
1.80E+06	2.22E-04	200	9,553	7.81E-03	3.36E-01	1.75E-04	9.22E-02	74.32

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(\text{Pe}^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
200	1.70E+00	0.10	4.00E+00	9.22E-02	4.00E+02	2.96E+00	2.37E-04	4.03E-04

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m ³)
3.0E-06	NA

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^{\circ}\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^{\circ}\text{K}$)	Critical temperature, T_C ($^{\circ}\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	3.0E-06	0.0E+00	165.83

END

Decorah Shopping Center Annex
PCE Soil Vapor Analysis
GP-23
DATA ENTRY SHEET

SG-SCREEN
Version 2.0; 04/0

Reset to
Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	1.70E+00			Tetrachloroethylene

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_s (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2)
200	274.32	10	SL		

MORE
↓

ENTER Vadose zone SCS soil type Lookup Soil Parameters	ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Vadose zone soil total porosity, n^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m)
SL	1.62	1.449	0.103	

MORE
↓

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{Nc} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

ATTACHMENT 6

STL Burlington

TARGET COMPOUNDS

Client Name:	Client SDG: vcxito15
Lab Smp Id: 6406	
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: AIR	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: WRD
Misc Info: 6406;0411Y2;.4;500MLS	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppbv	Q
75-27-4	Bromodichloromethane	0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	U
108-10-1	Methyl Isobutyl Ketone	0.20	U
108-88-3	Toluene	0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	U
127-18-4	Tetrachloroethene	0.20	U
591-78-6	Methyl Butyl Ketone	0.20	U
124-48-1	Dibromochloromethane	0.20	U
106-93-4	1,2-Dibromoethane	0.20	U
108-90-7	Chlorobenzene	0.20	U
100-41-4	Ethylbenzene	0.20	U
1330-20-7	Xylene (m,p)	0.20	U
95-47-6	Xylene (o)	0.20	U
100-42-5	Styrene	0.20	U
75-25-2	Bromoform	0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U
622-96-8	4-Ethyltoluene	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
95-49-8	2-Chlorotoluene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.20	U
87-68-3	Hexachlorobutadiene	0.20	U
=====	=====	=====	=====

STL Burlington

TARGET COMPOUNDS

Client Name: Client SDG: vcxito15
 Lab Smp Id: 6406
 Sample Location: Sample Point:
 Sample Date: Date Received:
 Sample Matrix: AIR Quant Type: ISTD
 Analysis Type: VOA Level: LOW
 Data Type: MS DATA Operator: WRD
 Misc Info: 6406;0411Y2;.4;500MLS

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppbv	Q
75-71-8	Dichlorodifluoromethane	0.20	U
76-14-2	1,2-Dichlorotetrafluoroethan	0.20	U
74-87-3	Chloromethane	0.20	U
75-01-4	Vinyl Chloride	0.20	U
106-99-0	1,3-Butadiene	0.20	U
74-83-9	Bromomethane	0.20	U
75-00-3	Chloroethane	0.20	U
593-60-2	Bromoethene	0.20	U
75-69-4	Trichlorofluoromethane	0.20	U
76-13-1	Freon TF	0.20	U
75-35-4	1,1-Dichloroethene	0.20	U
67-64-1	Acetone	2.0	U
75-15-0	Carbon Disulfide	0.20	U
67-63-0	Isopropyl Alcohol	2.0	U
107-05-1	3-Chloropropene	0.20	U
75-09-2	Methylene Chloride	0.20	U
1634-04-4	Methyl tert-Butyl Ether	0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	U
110-54-3	n-Hexane	0.20	U
75-34-3	1,1-Dichloroethane	0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	U
78-93-3	Methyl Ethyl Ketone	0.20	U
67-66-3	Chloroform	0.20	U
109-99-9	Tetrahydrofuran	2.0	U
71-55-6	1,1,1-Trichloroethane	0.20	U
110-82-7	Cyclohexane	0.20	U
56-23-5	Carbon Tetrachloride	0.20	U
540-84-1	2,2,4-Trimethylpentane	0.20	U
71-43-2	Benzene	0.20	U
107-06-2	1,2-Dichloroethane	0.20	U
142-82-5	n-Heptane	0.20	U
79-01-6	Trichloroethene	0.20	U
80-62-6	Methyl Methacrylate	0.20	U
78-87-5	1,2-Dichloropropane	0.20	U
123-91-1	1,4-Dioxane	2.0	U

STL-Burlington
Air Canister Certification Checklist

Batch ID: V C X I 4/11/03
Batch Canister: 6406
Analyst: WMD

- Runlog Pages
- BFB Report
- CCV Report
- Blank Report
- Clean Can Report
- Dirty Can Report

Certified Canisters:

1. 6409
2. 6215 ✓
3. 6247
4. 6435
5. 6221 ✓
6. 6356
7. 6420
8. 6406

Comments:

STL Burlington

TARGET COMPOUNDS

Client Name: Client SDG: vcxkto15
 Lab Smp Id: 6206
 Sample Location: Sample Point:
 Sample Date: Date Received:
 Sample Matrix: AIR Quant Type: ISTD
 Analysis Type: VOA Level: LOW
 Data Type: MS DATA Operator: WRD
 Misc Info: 6206;0414Y3;.4;500MLS

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppbv	Q
75-27-4	Bromodichloromethane	0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	U
108-10-1	Methyl Isobutyl Ketone	0.20	U
108-88-3	Toluene	0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	U
127-18-4	Tetrachloroethene	0.20	U
591-78-6	Methyl Butyl Ketone	0.20	U
124-48-1	Dibromochloromethane	0.20	U
106-93-4	1,2-Dibromoethane	0.20	U
108-90-7	Chlorobenzene	0.20	U
100-41-4	Ethylbenzene	0.20	U
1330-20-7	Xylene (m,p)	0.20	U
95-47-6	Xylene (o)	0.20	U
100-42-5	Styrene	0.20	U
75-25-2	Bromoform	0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U
622-96-8	4-Ethyltoluene	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
95-49-8	2-Chlorotoluene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.20	U
87-68-3	Hexachlorobutadiene	0.20	U
=====	=====	=====	=====

STL Burlington

TARGET COMPOUNDS

Client Name:	Client SDG: vcxkto15
Lab Smp Id: 6206	
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: AIR	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: WRD
Misc Info: 6206;0414Y3;.4;500MLS	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppbv	Q
75-71-8	Dichlorodifluoromethane	0.20	U
76-14-2	1,2-Dichlorotetrafluoroethan	0.20	U
74-87-3	Chloromethane	0.20	U
75-01-4	Vinyl Chloride	0.20	U
106-99-0	1,3-Butadiene	0.20	U
74-83-9	Bromomethane	0.20	U
75-00-3	Chloroethane	0.20	U
593-60-2	Bromoethene	0.20	U
75-69-4	Trichlorofluoromethane	0.20	U
76-13-1	Freon TF	0.20	U
75-35-4	1,1-Dichloroethene	0.20	U
67-64-1	Acetone	2.0	U
75-15-0	Carbon Disulfide	0.20	U
67-63-0	Isopropyl Alcohol	2.0	U
107-05-1	3-Chloropropene	0.20	U
75-09-2	Methylene Chloride	0.20	U
1634-04-4	Methyl tert-Butyl Ether	0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	U
110-54-3	n-Hexane	0.20	U
75-34-3	1,1-Dichloroethane	0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	U
78-93-3	Methyl Ethyl Ketone	0.20	U
67-66-3	Chloroform	0.20	U
109-99-9	Tetrahydrofuran	2.0	U
71-55-6	1,1,1-Trichloroethane	0.20	U
110-82-7	Cyclohexane	0.20	U
56-23-5	Carbon Tetrachloride	0.20	U
540-84-1	2,2,4-Trimethylpentane	0.20	U
71-43-2	Benzene	0.20	U
107-06-2	1,2-Dichloroethane	0.20	U
142-82-5	n-Heptane	0.20	U
79-01-6	Trichloroethene	0.20	U
80-62-6	Methyl Methacrylate	0.20	U
78-87-5	1,2-Dichloropropane	0.20	U
123-91-1	1,4-Dioxane	2.0	U

STL-Burlington
Air Canister Certification Checklist

Batch ID: VCXK 4/14/03
Batch Canister: 6206
Analyst: WRD

___ Runlog Pages

___ BFB Report

___ CCV Report

___ Blank Report

___ Clean Can Report

___ Dirty Can Report

Certified Canisters:

1. 6254

2. 6206

3. 6329

4. 6266 ✓

5. 6301

6. 6327

7. 6249

8. 6212

Comments:

Report to: Company: <u>Key Engineering Group Ltd.</u> Address: <u>1010 1215 Commerce East</u> <u>Colchester, VT 56012</u> Contact: <u>Kris King</u> Phone: <u>(262) 375-4750</u> Fax: <u>(262) 375-9680</u> Contract/ Quote: <u>Dated 2/12/03</u>				Invoice to: Company: _____ Address: _____ Contact: <u>SAME</u> Phone: _____ Fax: _____				ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Lab Use Only Due Date: _____ Temp. of coolers when received (C°): <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">1</td> <td style="width: 20px;">2</td> <td style="width: 20px;">3</td> <td style="width: 20px;">4</td> <td style="width: 20px;">5</td> </tr> </table> Custody Seal N / Y Intact N / Y. Screened For Radioactivity <input type="checkbox"/> </div>										1	2	3	4	5
1	2	3	4	5																		
Sampler's Name <u>Kris King</u>						Sampler's Signature 																
Proj. No. <u>0702507-12</u>		Project Name <u>Deerbrook Shopping Center Annex</u>						No./Type of Containers?														
Matrix ¹	Date	Time	C o m p	G r a b	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	Lab/Sample ID (Lab Use Only)												
vapor	4/13/03	2:45			GP-23				X	X	70-15 											
vapor	4/13/03	3:15			GP-24				1	X												
vapor	4/13/03	3:45			GP-25				1	X												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Remarks														
						4/13/03	2:45															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time															

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¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Summa Canister

STL cannot accept verbal changes.
Please Fax written changes to
(802) 655-1248

STL8234-200 (12/02)

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Lab File ID: DCB001B

Lab Sample ID: ABLKE1

Date Analyzed: 06/19/03

Time Analyzed: 1604

GC Column: RTX-624 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1LCS	E1LCS	DC010BQ	1429
02	E1LCSD	E1LCSD	DC011BQD	1514
03	GP-23	530979	530979	0009
04	GP-24	530980	530980	0053
05	GP-25	530981	530981	0137
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix Spike - Sample No.: E1LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	10		8.9	89	70-130
1,1-Dichloroethene	10		9.1	91	70-130
cis-1,2-Dichloroethene	10		9.1	91	70-130
1,1,1-Trichloroethane	10		9.3	93	70-130
Trichloroethene	10		9.1	91	70-130
Tetrachloroethene	10		9.6	96	70-130
trans-1,2-Dichloroethen	10		8.9	89	70-130

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Vinyl Chloride	10	8.4	84	6	40	70-130
1,1-Dichloroethene	10	8.8	88	3	40	70-130
cis-1,2-Dichloroethene	10	8.9	89	2	40	70-130
1,1,1-Trichloroethane	10	9.4	94	1	40	70-130
Trichloroethene	10	9.1	91	0	40	70-130
Tetrachloroethene	10	9.6	96	0	40	70-130
trans-1,2-Dichloroethen	10	8.6	86	3	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits

Spike Recovery: 0 out of 14 outside limits

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E1LCSD

Lab Name: STL BURLINGTON Contract: 23000
 Lab Code: STLVT Case No.: 23000 SAS No.: SDG No.: 94201
 Matrix: (soil/water) AIR Lab Sample ID: E1LCSD
 Sample wt/vol: 200.0 (g/mL) ML Lab File ID: DC011BQD
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 06/19/03
 GC Column: RTX-624 ID: 0.32 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
75-01-4-----	Vinyl Chloride	8.4	_____
75-35-4-----	1,1-Dichloroethene	8.8	_____
156-59-2-----	cis-1,2-Dichloroethene	8.9	_____
71-55-6-----	1,1,1-Trichloroethane	9.4	_____
79-01-6-----	Trichloroethene	9.1	_____
127-18-4-----	Tetrachloroethene	9.6	_____
156-60-5-----	trans-1,2-Dichloroethene	8.6	_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E1LCS

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix: (soil/water) AIR

Lab Sample ID: E1LCS

Sample wt/vol: 200.0 (g/mL) ML

Lab File ID: DC010BQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 06/19/03

GC Column: RTX-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	8.9	_____
75-35-4-----	1,1-Dichloroethene	9.1	_____
156-59-2-----	cis-1,2-Dichloroethene	9.1	_____
71-55-6-----	1,1,1-Trichloroethane	9.3	_____
79-01-6-----	Trichloroethene	9.1	_____
127-18-4-----	Tetrachloroethene	9.6	_____
156-60-5-----	trans-1,2-Dichloroethene	8.9	_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix: (soil/water) AIR

Lab Sample ID: ABLKE1

Sample wt/vol: 200.0 (g/mL) ML

Lab File ID: DCB001B

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 06/19/03

GC Column: RTX-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

KEYENG SAMPLE NO.

GP-25

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix: (soil/water) AIR

Lab Sample ID: 530981

Sample wt/vol: 200.0 (g/mL) ML

Lab File ID: 530981

Level: (low/med) LOW

Date Received: 06/13/03

% Moisture: not dec. _____

Date Analyzed: 06/20/03

GC Column: RTX-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) PPBV Q

75-01-4-----	Vinyl Chloride	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.80	_____
127-18-4-----	Tetrachloroethene	1.2	_____
156-60-5-----	trans-1,2-Dichloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

KEYENG SAMPLE NO.

GP-24

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix: (soil/water) AIR

Lab Sample ID: 530980

Sample wt/vol: 200.0 (g/mL) ML

Lab File ID: 530980

Level: (low/med) LOW

Date Received: 06/13/03

% Moisture: not dec. _____

Date Analyzed: 06/20/03

GC Column: RTX-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.73	
127-18-4-----	Tetrachloroethene	1.1	
156-60-5-----	trans-1,2-Dichloroethene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

KEYENG SAMPLE NO.

GP-23

Lab Name: STL BURLINGTON

Contract: 23000

Lab Code: STLVT

Case No.: 23000

SAS No.:

SDG No.: 94201

Matrix: (soil/water) AIR

Lab Sample ID: 530979

Sample wt/vol: 200.0 (g/mL) ML

Lab File ID: 530979

Level: (low/med) LOW

Date Received: 06/13/03

% Moisture: not dec. _____

Date Analyzed: 06/20/03

GC Column: RTX-624 ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U



The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectrometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

- A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.
- B- The reported analyte was detected in the associated method blank as well as the sample.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.
- E- Compound quantitation is above the instrument's calibration range for this analysis.
- J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but $> \frac{1}{2}$ reporting limit.
- U- Indicates compound was analyzed for but not detected above the reporting limit.
- N- Indicates presumptive evidence of a compound. Used for TICs where the identification is based on a mass spectral library search.
- X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

TO-14/15
Result Summary

CLIENT SAMPLE NO.

E1LCSD

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: AIR

Lab Sample No.: E1LCSD

Date Analyzed: 06/19/2003

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	8.4		0.50	21		1.3
1,1-Dichloroethene	75-35-4	8.8		0.50	35		2.0
cis-1,2-Dichloroethene	156-59-2	8.9		0.50	35		2.0
1,1,1-Trichloroethane	71-55-6	9.4		0.50	51		2.7
Trichloroethene	79-01-6	9.1		0.50	49		2.7
Tetrachloroethene	127-18-4	9.6		0.50	65		3.4
trans-1,2-Dichloroethene	156-60-5	8.6		0.50	34		2.0

TO-14/15
Result Summary

CLIENT SAMPLE NO.

E1LCS

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: AIR

Lab Sample No.: E1LCS

Date Analyzed: 06/19/2003

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	8.9		0.50	23		1.3
1,1-Dichloroethene	75-35-4	9.1		0.50	36		2.0
cis-1,2-Dichloroethene	156-59-2	9.1		0.50	36		2.0
1,1,1-Trichloroethane	71-55-6	9.3		0.50	51		2.7
Trichloroethene	79-01-6	9.1		0.50	49		2.7
Tetrachloroethene	127-18-4	9.6		0.50	65		3.4
trans-1,2-Dichloroethene	156-60-5	8.9		0.50	35		2.0

TO-14/15
Result Summary

CLIENT SAMPLE NO.

ABLKE1

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: AIR

Lab Sample No.: ABLKE1

Date Analyzed: 06/19/2003

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	0.50	U	0.50	1.3	U	1.3
1,1-Dichloroethene	75-35-4	0.50	U	0.50	2.0	U	2.0
cis-1,2-Dichloroethene	156-59-2	0.50	U	0.50	2.0	U	2.0
1,1,1-Trichloroethane	71-55-6	0.50	U	0.50	2.7	U	2.7
Trichloroethene	79-01-6	0.50	U	0.50	2.7	U	2.7
Tetrachloroethene	127-18-4	0.50	U	0.50	3.4	U	3.4
trans-1,2-Dichloroethene	156-60-5	0.50	U	0.50	2.0	U	2.0

TO-14/15
Result Summary

CLIENT SAMPLE NO.

GP-25

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: Air

Lab Sample No.: 530981

Date Analyzed: 06/20/2003

Date Received: 06/13/2003

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	0.50	U	0.50	1.3	U	1.3
1,1-Dichloroethene	75-35-4	0.50	U	0.50	2.0	U	2.0
cis-1,2-Dichloroethene	156-59-2	0.50	U	0.50	2.0	U	2.0
1,1,1-Trichloroethane	71-55-6	0.50	U	0.50	2.7	U	2.7
Trichloroethene	79-01-6	0.80		0.50	4.3		2.7
Tetrachloroethene	127-18-4	1.2		0.50	8.1		3.4
trans-1,2-Dichloroethene	156-60-5	0.50	U	0.50	2.0	U	2.0

**TO-14/15
Result Summary**

CLIENT SAMPLE NO.

GP-24

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: Air

Lab Sample No.: 530980

Date Analyzed: 06/20/2003

Date Received: 06/13/2003

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	0.50	U	0.50	1.3	U	1.3
1,1-Dichloroethene	75-35-4	0.50	U	0.50	2.0	U	2.0
cis-1,2-Dichloroethene	156-59-2	0.50	U	0.50	2.0	U	2.0
1,1,1-Trichloroethane	71-55-6	0.50	U	0.50	2.7	U	2.7
Trichloroethene	79-01-6	0.73		0.50	3.9		2.7
Tetrachloroethene	127-18-4	1.1		0.50	7.5		3.4
trans-1,2-Dichloroethene	156-60-5	0.50	U	0.50	2.0	U	2.0

TO-14/15
Result Summary

CLIENT SAMPLE NO.

GP-23

Lab Name: STL Burlington

SDG Number: 94201

Case Number:

Sample Matrix: Air

Lab Sample No.: 530979

Date Analyzed: 06/20/2003

Date Received: 06/13/2003

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Vinyl Chloride	75-01-4	0.50	U	0.50	1.3	U	1.3
1,1-Dichloroethene	75-35-4	0.50	U	0.50	2.0	U	2.0
cis-1,2-Dichloroethene	156-59-2	0.50	U	0.50	2.0	U	2.0
1,1,1-Trichloroethane	71-55-6	0.50	U	0.50	2.7	U	2.7
Trichloroethene	79-01-6	0.50	U	0.50	2.7	U	2.7
Tetrachloroethene	127-18-4	0.50	U	0.50	3.4	U	3.4
trans-1,2-Dichloroethene	156-60-5	0.50	U	0.50	2.0	U	2.0

Mr. Chris King
June 26, 2003
Page 2 of 2

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael F. Wheeler" with a flourish at the end.

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure



June 26, 2003

Mr. Chris King
Key Engineering
W66n215 Commerce Court
Cederburg, WI 53012

Re: Laboratory Project No. 23000
Case No. 23000; SDG: 94201

Dear Mr. King:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on June 13, 2003. Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 06/13/03 ETR No: 94201			
530979	GP-23	06/10/03	Air
530980	GP-24	06/10/03	Air
530981	GP-25	06/10/03	Air

Method TO15 – Volatile Organics:

Please note that no exceptions to the method prescribed quality control criteria were observed during the analyses of the samples in this delivery group.

Client specified matrix spike/matrix spike duplicate samples were not analyzed or requested with the above samples. However, routine method quality control analyses were performed.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0024.

ATTACHMENT 5

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

Facility/Project Name Decorah Shopping Center Annex			License/Permit/Monitoring Number -		Boring Number GP-25		
Boring Drilled By: Name of crew chief (first, last) and Firm Dave Paulson Soil Essentials			Date Drilling Started 6/10/2003		Date Drilling Completed 6/10/2003		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 2.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat _____ ' _____ ''		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
SW 1/2 of NW 1/4 of Section 24 , T 11 N, R 19 E			Long _____ ' _____ ''				
Facility ID		County Washington		County Code 67		Civil Town/City/ or Village West Bend	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P-200	
1 SS	48 48		1	TOPSOIL Brown, fine to medium SAND and GRAVEL (fill)	GP			<1						
			2	Reddish brown, fine to medium SAND with trace gravel				<1						
2 SS	36 36		4		SP			<1						
			5											
			7	End of soil boring at 7'					<1					

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

Signature: Firm: **KEY ENGINEERING GROUP, LTD.**
W66 N215 COMMERCE CT. CEDARBURG, WI 53012 Tel: (262) 375-4750 Fax: (262) 375-9680

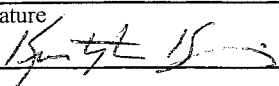
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally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

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

Facility/Project Name Decorah Shopping Center Annex			License/Permit/Monitoring Number -		Boring Number GP-24		
Boring Drilled By: Name of crew chief (first, last) and Firm Dave Paulson Soil Essentials			Date Drilling Started 6/10/2003		Date Drilling Completed 6/10/2003		
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location				
State Plane N, E S/C/N			Lat _____ "		<input type="checkbox"/> N <input type="checkbox"/> E		
SW 1/2 of NW 1/4 of Section 24, T 11 N, R 19 E			Long _____ "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		
Facility ID		County Washington		County Code 67		Civil Town/City/ or Village West Bend	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	48 42		1	TOPSOIL Dark brown, fine to medium SAND with trace gravel				<1						
			2					<1						
			3					<1						
2 SS	36 32		4		SP			<1						
			5					<1						
			6					<1						
			7	End of soil boring at 7'				<1						

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

Signature  Firm **KEY ENGINEERING GROUP, LTD.** Tel: (262) 375-4750
W66 N215 COMMERCE CT. CEDARBURG, WI 53012 Fax: (262) 375-9680

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

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

Facility/Project Name Decorah Shopping Center Annex		License/Permit/Monitoring Number -		Boring Number GP-23	
Boring Drilled By: Name of crew chief (first, last) and Firm Dave Paulson Soil Essentials		Date Drilling Started 6/10/2003		Date Drilling Completed 6/10/2003	
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/2 of NW 1/4 of Section 24 , T 11 N, R 19 E		Lat _____ ' _____ "		Long _____ ' _____ "	
Facility ID		County Washington		County Code 67	
				Civil Town/City/ or Village West Bend	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 SS	48 40		1	TOPSOIL Brown, fine to medium SAND and GRAVEL (fill)	GP			<1							
			2	Brown, fine to medium SAND with trace silt				<1							
2 SS	48 42		4		SP			<1							
			5					<1							
			6					<1							
			7					<1							
3 SS	12 12		8					<1							
			9	End of soil boring at 9'				<1							

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

Signature  Firm **KEY ENGINEERING GROUP, LTD.** Tel: (262) 375-4750
W66 N215 COMMERCE CT. CEDARBURG, WI 53012 Fax: (262) 375-9680

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

ATTACHMENT 4

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: Key Engineering Group Ltd. Client #: WT45150

Address: W66 W215 Commerce Ct.

City/State/Zip Code: Cedarburg, WI 53012

Project Manager: Kris King

Telephone Number: (262) 375-4750 Fax: (262) 375-9680

Sampler Name: (Print Name) Todd McQuiston

Sampler Signature: Todd McQuiston

Project Name: Decorah Shopping Center Annex

Project #: 0702007

Site/Location ID: West Bend State: WI

Report To: Kris King

Invoice To: Key Engineering Group Ltd.

Quote #: _____ PO#: _____

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y <u>(N)</u>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix							Preservation & # of Containers						Analyze For:						QC Deliverables												
							SL - Sludge	DW - Drinking Water	GW - Groundwater	S - Soil/Solid	MW - Wastewater	Specify	Other	HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	VOC	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Sulfate	Nitrate	None	Level 2 (Batch QC)	Level 3	Level 4	Other: _____						
			<u>6-10-03</u>	<u>11:30</u>	<u>G</u>	<u>N</u>	<u>GW</u>																															
				<u>2:15</u>		<u>Y</u>			<u>2</u>	<u>3</u>				<u>1</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>															
				<u>1:15</u>		<u>N</u>				<u>3</u>							<u>X</u>																					
				<u>3:45</u>		<u>Y</u>			<u>2</u>					<u>1</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>															
				<u>11:00</u>		<u>Y</u>			<u>2</u>					<u>1</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>															
						<u>N</u>	<u>✓</u>		<u>3</u>									<u>X</u>																				
			<u>✓</u>				<u>Blank</u>		<u>1</u>									<u>X</u>																				

Special Instructions: WLT left message Kris King 6-10-03 re missed holds nos analyze at receiving warm 11:00am

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: 40
Custody Seals: Y N (N/A)
Bottles Supplied by Test America: (Y) N
Method of Shipment: TA

Relinquished By: <u>Todd McQuiston</u>	Date: _____	Time: _____	Received By: <u>Gal B</u>	Date: <u>6/11</u>	Time: <u>9:55</u>
Relinquished By: <u>Gal B</u>	Date: <u>6/11</u>	Time: <u>14:30</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>Gal B</u>	Date: <u>6/11</u>	Time: <u>15:11</u>

QUALITY CONTROL REPORT
BLANKS

06/20/2003

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

Job No: 03.05172
Account No: 45150

Page 18 of 18

Job Description: 0702007 Decorah Shopping Center Annex

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
p-Isopropyltoluene		5050	<0.25	0.25	0.83	ug/L
Methylene Chloride		5050	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		5050	<0.50	0.50	1.7	ug/L
Naphthalene		5050	<0.25	0.25	0.83	ug/L
n-Propylbenzene		5050	<0.50	0.50	1.7	ug/L
Styrene		5050	<0.25	0.25	0.83	ug/L
1,1,1,2-Tetrachloroethane		5050	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		5050	<0.25	0.25	0.83	ug/L
Tetrachloroethene		5050	<0.50	0.50	1.7	ug/L
Toluene		5050	<0.25	0.25	0.83	ug/L
1,2,3-Trichlorobenzene		5050	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		5050	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		5050	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		5050	<0.25	0.25	0.83	ug/L
Trichloroethene		5050	<0.25	0.25	0.83	ug/L
Trichlorofluoromethane		5050	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		5050	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		5050	<0.25	0.25	0.83	ug/L
1,3,5-Trimethylbenzene		5050	<0.25	0.25	0.83	ug/L
Vinyl Chloride		5050	<0.50	0.50	1.7	ug/L
Xylenes, Total		5050	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		5050	100.8		88-112	%
Surr: Toluene-d8		5050	100.4		89-112	%
Surr: Bromofluorobenzene		5050	98.0		90-114	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT
BLANKS

06/20/2003

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

Job No: 03.05172
Account No: 45150

Page 17 of 18

Job Description: 0702007 Decorah Shopping Center Annex

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Bromochloromethane		5050	<0.50	0.50	1.7	ug/L
Bromodichloromethane		5050	<0.25	0.25	0.83	ug/L
Bromoform		5050	<0.25	0.25	0.83	ug/L
Bromomethane		5050	<0.25	0.25	0.83	ug/L
n-Butylbenzene		5050	<0.25	0.25	0.83	ug/L
sec-Butylbenzene		5050	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		5050	<0.25	0.25	0.83	ug/L
Carbon Tetrachloride		5050	<0.50	0.50	1.7	ug/L
Chlorobenzene		5050	<0.25	0.25	0.83	ug/L
Chlorodibromomethane		5050	<0.25	0.25	0.83	ug/L
Chloroethane		5050	<1.0	1.0	3.3	ug/L
Chloroform		5050	<0.25	0.25	0.83	ug/L
Chloromethane		5050	<0.25	0.25	0.83	ug/L
2-Chlorotoluene		5050	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		5050	<0.25	0.25	0.83	ug/L
1,2-Dibromo-3-Chloropropane		5050	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		5050	<0.25	0.25	0.83	ug/L
Dibromomethane		5050	<0.25	0.25	0.83	ug/L
1,2-Dichlorobenzene		5050	<0.25	0.25	0.83	ug/L
1,3-Dichlorobenzene		5050	<0.25	0.25	0.83	ug/L
1,4-Dichlorobenzene		5050	<0.25	0.25	0.83	ug/L
Dichlorodifluoromethane		5050	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		5050	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		5050	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		5050	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		5050	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		5050	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		5050	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		5050	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		5050	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		5050	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		5050	<0.25	0.25	0.83	ug/L
trans-1,3-Dichloropropene		5050	<0.25	0.25	0.83	ug/L
Di-isopropyl ether		5050	<0.50	0.50	1.7	ug/L
Ethylbenzene		5050	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		5050	<0.50	0.50	1.7	ug/L
Isopropylbenzene		5050	<0.25	0.25	0.83	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT

BLANKS

06/20/2003

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

Job No: 03.05172
Account No: 45150

Page 16 of 18

Job Description: 0702007 Decorah Shopping Center Annex

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
trans-1,2-Dichloroethene		5046	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		5046	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		5046	<0.25	0.25	0.83	ug/L
1,1-Dichloropropene		5046	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		5046	<0.25	0.25	0.83	ug/L
trans-1,3-Dichloropropene		5046	<0.25	0.25	0.83	ug/L
Di-isopropyl ether		5046	<0.50	0.50	1.7	ug/L
Ethylbenzene		5046	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		5046	<0.50	0.50	1.7	ug/L
Isopropylbenzene		5046	<0.25	0.25	0.83	ug/L
p-Isopropyltoluene		5046	<0.25	0.25	0.83	ug/L
Methylene Chloride		5046	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		5046	<0.50	0.50	1.7	ug/L
Naphthalene		5046	<0.25	0.25	0.83	ug/L
n-Propylbenzene		5046	<0.50	0.50	1.7	ug/L
Styrene		5046	<0.25	0.25	0.83	ug/L
1,1,1,2-Tetrachloroethane		5046	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		5046	<0.25	0.25	0.83	ug/L
Tetrachloroethene		5046	<0.50	0.50	1.7	ug/L
Toluene		5046	<0.25	0.25	0.83	ug/L
1,2,3-Trichlorobenzene		5046	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		5046	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		5046	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		5046	<0.25	0.25	0.83	ug/L
Trichloroethene		5046	<0.25	0.25	0.83	ug/L
Trichlorofluoromethane		5046	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		5046	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		5046	<0.25	0.25	0.83	ug/L
1,3,5-Trimethylbenzene		5046	<0.25	0.25	0.83	ug/L
Vinyl Chloride		5046	<0.50	0.50	1.7	ug/L
Xylenes, Total		5046	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		5046	100.8		88-112	%
Surr: Toluene-d8		5046	99.8		89-112	%
Surr: Bromofluorobenzene		5046	97.2		90-114	%
VOC - AQUEOUS - EPA 8260B						
Benzene		5050	<0.25	0.25	0.83	ug/L
Bromobenzene		5050	<0.25	0.25	0.83	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT
BLANKS

06/20/2003

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

Job No: 03.05172
Account No: 45150

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Job Description: 0702007 Decorah Shopping Center Annex

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
N-Nitrate Sulfate, IC		2181	<0.50	0.50	1.5	mg/L
Iron, AA	2686	2096	<0.042	0.042	0.14	mg/L
Iron, AA		2098	<0.042	0.042	0.14	mg/L
Iron, AA		2101	<0.042	0.042	0.14	mg/L
Iron, Dissolved		2099	<0.042	0.042	0.14	mg/L
Manganese, AA	2686	1351	<0.0018	0.0018	0.0063	mg/L
Manganese, AA		1354	<0.0018	0.0018	0.0063	mg/L
VOC - AQUEOUS - EPA 8260B						
Benzene		5046	<0.25	0.25	0.83	ug/L
Bromobenzene		5046	<0.25	0.25	0.83	ug/L
Bromochloromethane		5046	<0.50	0.50	1.7	ug/L
Bromodichloromethane		5046	<0.25	0.25	0.83	ug/L
Bromoform		5046	<0.25	0.25	0.83	ug/L
Bromomethane		5046	<0.25	0.25	0.83	ug/L
n-Butylbenzene		5046	<0.25	0.25	0.83	ug/L
sec-Butylbenzene		5046	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		5046	<0.25	0.25	0.83	ug/L
Carbon Tetrachloride		5046	<0.50	0.50	1.7	ug/L
Chlorobenzene		5046	<0.25	0.25	0.83	ug/L
Chlorodibromomethane		5046	<0.25	0.25	0.83	ug/L
Chloroethane		5046	<1.0	1.0	3.3	ug/L
Chloroform		5046	<0.25	0.25	0.83	ug/L
Chloromethane		5046	<0.25	0.25	0.83	ug/L
2-Chlorotoluene		5046	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		5046	<0.25	0.25	0.83	ug/L
1,2-Dibromo-3-Chloropropane		5046	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		5046	<0.25	0.25	0.83	ug/L
Dibromomethane		5046	<0.25	0.25	0.83	ug/L
1,2-Dichlorobenzene		5046	<0.25	0.25	0.83	ug/L
1,3-Dichlorobenzene		5046	<0.25	0.25	0.83	ug/L
1,4-Dichlorobenzene		5046	<0.25	0.25	0.83	ug/L
Dichlorodifluoromethane		5046	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		5046	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		5046	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		5046	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		5046	<0.50	0.50	1.7	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527760
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: Trip Blank
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 UNKNOWN Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Isopropylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
p-Isopropyltoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5050
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Styrene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,2,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Toluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Trichloroethene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,3,5-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Vinyl Chloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Surr: Dibromofluoromethane	100	%		88-112	SW 8260B	06/19/2003	mae	5050
Surr: Toluene-d8	101	%		89-112	SW 8260B	06/19/2003	mae	5050
Surr: Bromofluorobenzene	98	%		90-114	SW 8260B	06/19/2003	mae	5050

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527760
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: Trip Blank
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 UNKNOWN Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Bromodichloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromoform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
n-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
tert-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Chlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chlorodibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5050
Chloroform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
4-Chlorotoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dibromoethane (EDB)	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Dibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,3-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
cis-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
trans-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527759
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: Dup
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 UNKNOWN Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Isopropylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
p-Isopropyltoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5050
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Styrene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,2,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Toluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Trichloroethene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,3,5-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Vinyl Chloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Surr: Dibromofluoromethane	101	%		88-112	SW 8260B	06/19/2003	mae	5050
Surr: Toluene-d8	100	%		89-112	SW 8260B	06/19/2003	mae	5050
Surr: Bromofluorobenzene	98	%		90-114	SW 8260B	06/19/2003	mae	5050

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527759
Account No: 45150
Page 11 of 18

JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: Dup
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 UNKNOWN Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Bromodichloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromoform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Bromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
n-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
tert-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Chlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chlorodibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5050
Chloroform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Chloromethane	0.50	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
4-Chlorotoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dibromoethane (EDB)	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Dibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,2-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,3-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
cis-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
trans-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5050
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5050

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527758
Account No: 45150
Page 10 of 18

JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-13
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 11:30

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
N-Nitrate	<0.50	mg/L	0.50	1.5	EPA 300.0	06/18/2003	tds		2181
Sulfate, IC	56	mg/L	2.0	6.7	EPA 300.0	06/19/2003	tds		1528
Iron, AA	1.7	mg/L	0.042	0.14	EPA 236.1	06/19/2003	gaf	2686	2101
Iron, Dissolved	<0.042	mg/L	0.042	0.14	EPA 236.1	06/17/2003	gaf		2099
Manganese, AA	0.14	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf	2686	1354
Manganese, Dissolved	0.071	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf		1354

ANALYTICAL REPORT

Kris King
 KEY ENGINEERING GROUP LTD
 W66 N215 Commerce Court
 Cedarburg, WI 53012

06/20/2003
 Job No: 03.05172
 Sample No: 527757
 Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
 PROJECT DESCRIPTION: Groundwater Analysis
 SAMPLE DESCRIPTION: MW-1
 West Bend, WI
 Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 15:45

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
N-Nitrate	<0.50	mg/L	0.50	1.5	EPA 300.0	06/18/2003	tds	2181
Sulfate, IC	49	mg/L	2.0	6.7	EPA 300.0	06/19/2003	tds	1528
Iron, AA	1.8	mg/L	0.042	0.14	EPA 236.1	06/19/2003	gaf	2686 2101
Iron, Dissolved	<0.042	mg/L	0.042	0.14	EPA 236.1	06/17/2003	gaf	2099
Manganese, AA	0.33	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf	2686 1354
Manganese, Dissolved	0.32	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf	1354

ANALYTICAL REPORT

Kris King
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W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527756
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: P-5
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 13:15

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Isopropylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
p-Isopropyltoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Styrene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,2,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Toluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichloroethene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3,5-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Vinyl Chloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Surr: Dibromofluoromethane	100	%		88-112	SW 8260B	06/19/2003	mae	5046
Surr: Toluene-d8	101	%		89-112	SW 8260B	06/19/2003	mae	5046
Surr: Bromofluorobenzene	98	%		90-114	SW 8260B	06/19/2003	mae	5046

ANALYTICAL REPORT

Kris King
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W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527756
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: P-5
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 13:15

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Analyst	Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Bromodichloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromoform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
tert-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Chlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chlorodibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Chloroform	0.37	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
4-Chlorotoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dibromoethane (EDB)	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
trans-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527755
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-23
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 14:15

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
trans-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Isopropylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
p-Isopropyltoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Styrene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,2,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Toluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichloroethene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3,5-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Vinyl Chloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Surr: Dibromofluoromethane	99	%		88-112	SW 8260B	06/19/2003	mae	5046
Surr: Toluene-d8	100	%		89-112	SW 8260B	06/19/2003	mae	5046
Surr: Bromofluorobenzene	98	%		90-114	SW 8260B	06/19/2003	mae	5046

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527755
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-23
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 14:15

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
N-Nitrate	4.8	mg/L	0.50	1.5	EPA 300.0	06/18/2003	tds	2181
Sulfate, IC	32	mg/L	2.0	6.7	EPA 300.0	06/19/2003	tds	1528
Iron, AA	1.4	mg/L	0.042	0.14	EPA 236.1	06/17/2003	gaf	2686 2098
Iron, Dissolved	<0.042	mg/L	0.042	0.14	EPA 236.1	06/17/2003	gaf	2098
Manganese, AA	0.13	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf	2686 1354
Manganese, Dissolved	0.014	mg/L	0.0018	0.0063	EPA 243.1	06/19/2003	gaf	1354
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Bromodichloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromoform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
tert-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Chlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chlorodibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Chloroform	0.91	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloromethane	0.63	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
4-Chlorotoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dibromoethane (EDB)	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2,2-Dichloropropane	C <0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527754
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-22
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 11:30

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Isopropylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
p-Isopropyltoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Styrene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,2,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Toluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichloroethene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3,5-Trimethylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Vinyl Chloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Surr: Dibromofluoromethane	99	%		88-112	SW 8260B	06/19/2003	mae	5046
Surr: Toluene-d8	100	%		89-112	SW 8260B	06/19/2003	mae	5046
Surr: Bromofluorobenzene	98	%		90-114	SW 8260B	06/19/2003	mae	5046

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003
Job No: 03.05172
Sample No: 527754
Account No: 45150
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JOB DESCRIPTION: 0702007 Decorah Shopping Center Annex
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-22
West Bend, WI
Rec'd at 4 degrees C

Date/Time Taken: 06/10/2003 11:30

Date Received: 06/11/2003

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Analyst	Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Bromodichloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromoform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Bromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
n-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
tert-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Chlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chlorodibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	06/19/2003	mae	5046
Chloroform	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Chloromethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
4-Chlorotoluene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dibromoethane (EDB)	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dibromomethane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,2-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,3-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
2,2-Dichloropropane	C <0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
cis-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
trans-1,3-Dichloropropene	<0.25	ug/L	0.25	0.83	SW 8260B	06/19/2003	mae	5046
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	06/19/2003	mae	5046

KEY ENGINEERING GROUP LTD
Job No: 03.05172

06/20/2003
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KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

- A = Analyzed/extracted past hold time
- B = Blank is contaminated
- C = Standard outside of control limits
- D = Diluted for analysis
- E = TCLP extraction outside of method required temperature range
- F = Sample filtered in lab
- G = Received past hold time
- H = Late eluting hydrocarbons present
- I = Improperly handled sample
- J = Estimated concentration
- L = Common lab solvent and contaminant
- M = Matrix interference
- P = Improperly preserved sample
- Q = Result confirmed via re-analysis
- S = Sediment present
- T = Does not match typical pattern
- W = BOD re-set due to missed dilution
- X = Unidentified compound(s) present
- Z = Internal standard outside limits
- * = See Case Narrative

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that WDNR certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
130	WDNR - 632021390
147	WDNR - 721026460
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown WDNR - 128053530; IDNR - 294; MDH - 055-999-366; ND - R-046

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/20/2003

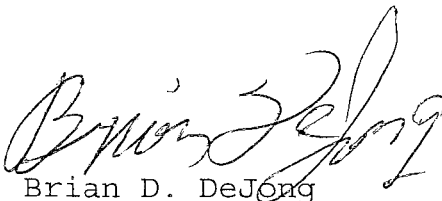
Job No: 03.05172

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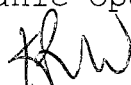
The following samples were received by TestAmerica for analysis:

0702007 Decorah Shopping Center Annex

Sample Number	Sample Description	Date Taken	Date Received
527754	MW-22	06/10/2003	06/11/2003
527755	MW-23	06/10/2003	06/11/2003
527756	P-5	06/10/2003	06/11/2003
527757	MW-1	06/10/2003	06/11/2003
527758	MW-13	06/10/2003	06/11/2003
527759	Dup	06/10/2003	06/11/2003
527760	Trip Blank	06/10/2003	06/11/2003



Brian D. DeJong
Organic Operations Manager



ATTACHMENT 3

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526749
Account No: 45150
Page 8 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: Trip Blank
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 UNKNOWN Date Received: 06/04/2003

Parameter	Results	Units	Reporting		Date Analyzed	Prep/Run	
			Limit	Method		Analyst	Batch
Isopropylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
p-Isopropyltoluene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Methylene Chloride	<50	ug/kg	50	SW 8260B	06/09/2003	pju	2370
Methyl-t-butyl ether	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Naphthalene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
n-Propylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Styrene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1,1,2-Tetrachloroethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1,2,2-Tetrachloroethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Tetrachloroethene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Toluene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2,3-Trichlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2,4-Trichlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1,1-Trichloroethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1,2-Trichloroethane	<35	ug/kg	35	SW 8260B	06/09/2003	pju	2370
Trichloroethene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Trichlorofluoromethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2,3-Trichloropropane	<100	ug/kg	100	SW 8260B	06/09/2003	pju	2370
1,2,4-Trimethylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,3,5-Trimethylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Vinyl Chloride	<35	ug/kg	35	SW 8260B	06/09/2003	pju	2370
Xylenes, Total	<35	ug/kg	35	SW 8260B	06/09/2003	pju	2370
Surr: Dibromofluoromethane	95	%	87-111	SW 8260B	06/09/2003	pju	2370
Surr: Toluene-d8	95	%	88-110	SW 8260B	06/09/2003	pju	2370
Surr: Bromofluorobenzene	104	%	90-108	SW 8260B	06/09/2003	pju	2370

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526749
Account No: 45150
Page 7 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: Trip Blank
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 UNKNOWN Date Received: 06/04/2003

Parameter	Results	Units	Reporting		Date		Prep/Run Batch
			Limit	Method	Analyzed	Analyst	
VOC - METHANOL - 8260B							
Benzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Bromobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Bromochloromethane	<35	ug/kg	35	SW 8260B	06/09/2003	pju	2370
Bromodichloromethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Bromoform	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Bromomethane	<100	ug/kg	100	SW 8260B	06/09/2003	pju	2370
n-Butylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
sec-Butylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
tert-Butylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Carbon Tetrachloride	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Chlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Chlorodibromomethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Chloroethane	<50	ug/kg	50	SW 8260B	06/09/2003	pju	2370
Chloroform	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Chloromethane	<50	ug/kg	50	SW 8260B	06/09/2003	pju	2370
2-Chlorotoluene	<50	ug/kg	50	SW 8260B	06/09/2003	pju	2370
4-Chlorotoluene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2-Dibromo-3-Chloropropane	<50	ug/kg	50	SW 8260B	06/09/2003	pju	2370
1,2-Dibromoethane (EDB)	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Dibromomethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2-Dichlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,3-Dichlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,4-Dichlorobenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Dichlorodifluoromethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1-Dichloroethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2-Dichloroethane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1-Dichloroethene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
cis-1,2-Dichloroethene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
trans-1,2-Dichloroethene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,2-Dichloropropane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,3-Dichloropropane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
2,2-Dichloropropane	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
1,1-Dichloropropene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
cis-1,3-Dichloropropene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
trans-1,3-Dichloropropene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Di-isopropyl ether	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Ethylbenzene	<25	ug/kg	25	SW 8260B	06/09/2003	pju	2370
Hexachlorobutadiene	<35	ug/kg	35	SW 8260B	06/09/2003	pju	2370

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526748
Account No: 45150
Page 6 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: B-28 12.5-14.5'
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 11:00

Date Received: 06/04/2003

Parameter	Results	Units	Reporting		Date		Prep/Run
			Limit	Method	Analyzed	Analyst	
Hexachlorobutadiene	<37	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Isopropylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
p-Isopropyltoluene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Methylene Chloride	<53	ug/kg	50	SW 8260B	06/10/2003	pju	2372
Methyl-t-butyl ether	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Naphthalene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
n-Propylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Styrene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,1,2-Tetrachloroethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,2,2-Tetrachloroethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Tetrachloroethene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Toluene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,3-Trichlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,4-Trichlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,1-Trichloroethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,2-Trichloroethane	<37	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Trichloroethene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Trichlorofluoromethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,3-Trichloropropane	<105	ug/kg	100	SW 8260B	06/10/2003	pju	2372
1,2,4-Trimethylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3,5-Trimethylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Vinyl Chloride	<37	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Xylenes, Total	<37	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Surr: Dibromofluoromethane	95	%	87-111	SW 8260B	06/10/2003	pju	2372
Surr: Toluene-d8	96	%	88-110	SW 8260B	06/10/2003	pju	2372
Surr: Bromofluorobenzene	102	%	90-108	SW 8260B	06/10/2003	pju	2372

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526748
Account No: 45150
Page 5 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: B-28 12.5-14.5'
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 11:00

Date Received: 06/04/2003

Parameter	Results	Units	Reporting		Date		Prep/Run Batch
			Limit	Method	Analyzed	Analyst	
Solids, Total	95.0	%	n/a	SW 5035	06/12/2003	kee	5166
VOC - METHANOL - 8260B							
Benzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromochloromethane	<37	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Bromodichloromethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromoform	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromomethane	<105	ug/kg	100	SW 8260B	06/10/2003	pju	2372
n-Butylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
sec-Butylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
tert-Butylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Carbon Tetrachloride	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chlorodibromomethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chloroethane	<53	ug/kg	50	SW 8260B	06/10/2003	pju	2372
Chloroform	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chloromethane	<53	ug/kg	50	SW 8260B	06/10/2003	pju	2372
2-Chlorotoluene	<53	ug/kg	50	SW 8260B	06/10/2003	pju	2372
4-Chlorotoluene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dibromo-3-Chloropropane	<53	ug/kg	50	SW 8260B	06/10/2003	pju	2372
1,2-Dibromoethane (EDB)	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Dibromomethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3-Dichlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,4-Dichlorobenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Dichlorodifluoromethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloroethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichloroethane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloroethene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
cis-1,2-Dichloroethene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
trans-1,2-Dichloroethene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichloropropane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3-Dichloropropane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
2,2-Dichloropropane	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloropropene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
cis-1,3-Dichloropropene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
trans-1,3-Dichloropropene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Di-isopropyl ether	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Ethylbenzene	<26	ug/kg	25	SW 8260B	06/10/2003	pju	2372

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526747
Account No: 45150
Page 4 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: B-27 5-7'
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 09:00 Date Received: 06/04/2003

Parameter	Results	Units	Reporting		Date		Prep/Run
			Limit	Method	Analyzed	Analyst	Batch
Hexachlorobutadiene	<38	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Isopropylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
p-Isopropyltoluene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Methylene Chloride	<55	ug/kg	50	SW 8260B	06/10/2003	pju	2372
Methyl-t-butyl ether	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Naphthalene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
n-Propylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Styrene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,1,2-Tetrachloroethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,2,2-Tetrachloroethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Tetrachloroethene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Toluene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,3-Trichlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,4-Trichlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,1-Trichloroethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1,2-Trichloroethane	<38	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Trichloroethene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Trichlorofluoromethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2,3-Trichloropropane	<109	ug/kg	100	SW 8260B	06/10/2003	pju	2372
1,2,4-Trimethylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3,5-Trimethylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Vinyl Chloride	<38	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Xylenes, Total	<38	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Surr: Dibromofluoromethane	99	%	87-111	SW 8260B	06/10/2003	pju	2372
Surr: Toluene-d8	96	%	88-110	SW 8260B	06/10/2003	pju	2372
Surr: Bromofluorobenzene	104	%	90-108	SW 8260B	06/10/2003	pju	2372

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003
Job No: 03.04901
Sample No: 526747
Account No: 45150
Page 3 of 8

JOB DESCRIPTION: 0702007 BG13 Decorah Shopping Center
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: B-27 5-7'
West Bend, WI
Rec'd at 5 degrees C

Date/Time Taken: 06/03/2003 09:00

Date Received: 06/04/2003

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Analyst	Batch
Solids, Total	91.4	%	n/a	SW 5035	06/12/2003	kee	5166
VOC - METHANOL - 8260B							
Benzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromochloromethane	<38	ug/kg	35	SW 8260B	06/10/2003	pju	2372
Bromodichloromethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromoform	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Bromomethane	<109	ug/kg	100	SW 8260B	06/10/2003	pju	2372
n-Butylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
sec-Butylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
tert-Butylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Carbon Tetrachloride	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chlorodibromomethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chloroethane	<55	ug/kg	50	SW 8260B	06/10/2003	pju	2372
Chloroform	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Chloromethane	<55	ug/kg	50	SW 8260B	06/10/2003	pju	2372
2-Chlorotoluene	<55	ug/kg	50	SW 8260B	06/10/2003	pju	2372
4-Chlorotoluene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dibromo-3-Chloropropane	<55	ug/kg	50	SW 8260B	06/10/2003	pju	2372
1,2-Dibromoethane (EDB)	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Dibromomethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3-Dichlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,4-Dichlorobenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Dichlorodifluoromethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloroethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichloroethane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloroethene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
cis-1,2-Dichloroethene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
trans-1,2-Dichloroethene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,2-Dichloropropane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,3-Dichloropropane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
2,2-Dichloropropane	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
1,1-Dichloropropene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
cis-1,3-Dichloropropene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
trans-1,3-Dichloropropene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Di-isopropyl ether	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372
Ethylbenzene	<27	ug/kg	25	SW 8260B	06/10/2003	pju	2372

KEY ENGINEERING GROUP LTD
Job No: 03.04901

06/13/2003
Page 2 of 8

KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time
B = Blank is contaminated
C = Standard outside of control limits
D = Diluted for analysis
E = TCLP extraction outside of method required temperature range
F = Sample filtered in lab
G = Received past hold time
H = Late eluting hydrocarbons present
I = Improperly handled sample
J = Estimated concentration
L = Common lab solvent and contaminant
M = Matrix interference
P = Improperly preserved sample
Q = Result confirmed via re-analysis
S = Sediment present
T = Does not match typical pattern
W = BOD re-set due to missed dilution
X = Unidentified compound(s) present
Z = Internal standard outside limits
* = See Case Narrative

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that WDNR certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
130	WDNR - 632021390
147	WDNR - 721026460
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown WDNR - 128053530; IDNR - 294; MDH - 055-999-366; ND - R-046

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Kris King
KEY ENGINEERING GROUP LTD
W66 N215 Commerce Court
Cedarburg, WI 53012

06/13/2003

Job No: 03.04901

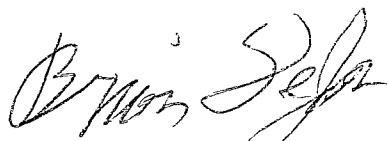
Page 1 of 8

The following samples were received by TestAmerica for analysis:

0702007 BG13 Decorah Shopping Center

Sample Number	Sample Description	Date Taken	Date Received
526747	B-27 5-7'	06/03/2003	06/04/2003
526748	B-28 12.5-14.5'	06/03/2003	06/04/2003
526749	Trip Blank	06/03/2003	06/04/2003

Soil results reported
on a dry weight basis.



Brian D. DeJong
Organic Operations Manager

ATTACHMENT 2

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

Facility/Project Name Decorah Shopping Center Annex	County Washington	Well Name P-5	
Facility License, Permit or Monitoring Number -	County Code 67	Wis. Unique Well Number OW689	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other

3. Time spent developing well **85 min.**

4. Depth of well (from top of well casing) **37.0 ft.**

5. Inside diameter of well **2.00 in.**

6. Volume of water in filter pack and well casing **17.7 gal.**

7. Volume of water removed from well **30.0 gal.**

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

9. Source of water added _____

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

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 17.83 ft.	19.40 ft.
Date	b. 6/10/2003	6/10/2003
Time	c. 11:50 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	01:15 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	33.1 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe)	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

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

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

15. COD **mg/l** **mg/l**

16. Well developed by: Person's Name and Firm

Todd E. McQuiston

Key Engineering Group, Ltd.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: **Continental VI Fund Limited Partnership**

Street: **10850 West Park Place, 6th Floor**

City/State/Zip: **Menomonee Falls, Wisconsin 53052**

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

Signature: 

Print Name: **Todd E. McQuiston**

Firm: **KEY ENGINEERING GROUP, LTD.**

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

Facility/Project Name Decorah Shopping Center Annex	County Washington	Well Name MW-23	
Facility License, Permit or Monitoring Number -	County Code 67	Wis. Unique Well Number OW688	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:

surged with bailer and bailed	<input type="checkbox"/> 4 1
surged with bailer and pumped	<input type="checkbox"/> 6 1
surged with block and bailed	<input type="checkbox"/> 4 2
surged with block and pumped	<input type="checkbox"/> 6 2
surged with block, bailed, and pumped	<input type="checkbox"/> 7 0
compressed air	<input type="checkbox"/> 2 0
bailed only	<input type="checkbox"/> 1 0
pumped only	<input checked="" type="checkbox"/> 5 1
pumped slowly	<input type="checkbox"/> 5 0
other _____	<input type="checkbox"/> <input type="checkbox"/>

3. Time spent developing well **30 min.**

4. Depth of well (from top of well casing) **21.2 ft.**

5. Inside diameter of well **2.00 in.**

6. Volume of water in filter pack and well casing **3.8 gal.**

7. Volume of water removed from well **12.0 gal.**

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 17.12 ft.	17.08 ft.
Date	b. 6/10/2003	6/10/2003
Time	c. 01:45 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	02:15 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	2.2 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm Todd E. McQuiston Key Engineering Group, Ltd.		

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

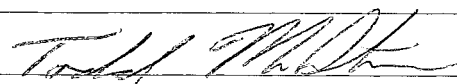
Name: _____

Firm: **Continental VI Fund Limited Partnership**

Street: **10850 West Park Place, 6th Floor**

City/State/Zip: **Menomonee Falls, Wisconsin 53052**

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

Signature: 

Print Name: **Todd E. McQuiston**

Firm: **KEY ENGINEERING GROUP, LTD.**

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

Facility/Project Name Decorah Shopping Center Annex	County Washington	Well Name MW-22	
Facility License, Permit or Monitoring Number -	County Code 67	Wis. Unique Well Number OW687	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____ _____

3. Time spent developing well **45 min.**

4. Depth of well (from top of well casing) **13.2 ft.**

5. Inside diameter of well **2.00 in.**

6. Volume of water in filter pack and well casing **3.0 gal.**

7. Volume of water removed from well **6.0 gal.**

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

9. Source of water added _____

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

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.96 ft.	11.52 ft.
Date	b. 6/10/2003	6/10/2003
Time	c. 10:45 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	11:30 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe)	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

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

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm

Todd E. McQuiston
Key Engineering Group, Ltd.

Facility Address or Owner/Responsible Party Address

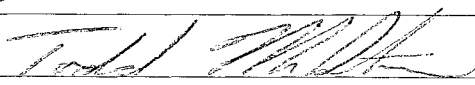
Name: _____

Firm: **Continental VI Fund Limited Partnership**

Street: **10850 West Park Place, 6th Floor**

City/State/Zip: **Menomonee Falls, Wisconsin 53052**

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

Signature: 

Print Name: **Todd E. McQuiston**

Firm: **KEY ENGINEERING GROUP, LTD.**

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

Facility/Project Name Decorah Shopping Center Annex	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name P-5
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. OW689 DNR Well Number
Facility ID	Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 06/03/2003
Type of Well	Section Location of Waste/Source SW <input type="checkbox"/> NW <input type="checkbox"/> SE <input type="checkbox"/> SW <input type="checkbox"/> T. 11 N, R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Todd E. McQuiston
Well Code 11/mw	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	Key Engineering Group, Ltd.

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: <u>9.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9		7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger Mining #40-60 50 Lbs.</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger Mining Silica #20-40 200 Lbs.</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. MSL or <u>31.0</u> ft.	b. Manufacturer <u>Timco</u>	
G. Filter pack, top _____ ft. MSL or <u>32.0</u> ft.	c. Slot size: <u>0.010</u> in.	
H. Screen joint, top _____ ft. MSL or <u>33.0</u> ft.	d. Slotted length: <u>10.0</u> ft.	
I. Well bottom _____ ft. MSL or <u>38.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or <u>39.5</u> ft.		
K. Borehole, bottom _____ ft. MSL or <u>39.5</u> ft.		
L. Borehole, diameter <u>8.3</u> in.		
M. O.D. well casing <u>2.37</u> in.		
N. I.D. well casing <u>2.04</u> in.		

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

Signature Todd E. McQuiston Firm **KEY ENGINEERING GROUP, LTD.** Tel: (262) 375-4750
W66 N215 COMMERCE CT. CEDARBURG, WI 53012 Fax: (262) 375-9680

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

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

Facility/Project Name Decorah Shopping Center Annex	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-23
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. OW688 DNR Well Number
Facility ID	Lat. _____ Long. _____ or	Date Well Installed 06/03/2003
Type of Well Well Code 11/mw	St. Plane _____ ft. N, _____ ft. E. S/C/N	Well Installed By: (Person's Name and Firm) Todd E. McQuiston
Distance from Waste/Source ft.	Section Location of Waste/Source SW 1/4 of NW 1/4 of Sec. 24 , T. 11 N, R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Gov. Lot Number
Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Key Engineering Group, Ltd.

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ in. 9.0 b. Length: _____ ft. 1.0 c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. Badger Mining #40-60 50 Lbs. b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. Badger Mining Silica #20-40 250 Lbs. b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 1.0 ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. MSL or 10.0 ft.	b. Manufacturer Timco	
G. Filter pack, top _____ ft. MSL or 11.0 ft.	c. Slot size: 0.010 in.	
H. Screen joint, top _____ ft. MSL or 12.0 ft.	d. Slotted length: 10.0 ft.	
I. Well bottom _____ ft. MSL or 22.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or 24.5 ft.		
K. Borehole, bottom _____ ft. MSL or 24.5 ft.		
L. Borehole, diameter 8.3 in.		
M. O.D. well casing 2.37 in.		
N. I.D. well casing 2.04 in.		

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

Signature Todd E. McQuiston Firm **KEY ENGINEERING GROUP, LTD.** Tel: (262) 375-4750
W66 N215 COMMERCE CT. CEDARBURG, WI 53012 Fax: (262) 375-9680

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

Facility/Project Name Decorah Shopping Center Annex	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-22
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. OW687 DNR Well Number
Facility ID	Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 06/03/2003
Type of Well Well Code 11/mw	Section Location of Waste/Source SW <input type="checkbox"/> NW <input type="checkbox"/> SE <input type="checkbox"/> SW <input type="checkbox"/> T. 11 N, R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Todd E. McQuiston
Distance from Waste/Source ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number
Enf. Stds. Apply <input type="checkbox"/>		Key Engineering Group, Ltd.

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ 9.0 in. b. Length: _____ 1.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Holeplug Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9		7. Fine sand material: Manufacturer, product name & mesh size a. _____ Badger Mining #40-60 50 Lbs. _____ b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		8. Filter pack material: Manufacturer, product name & mesh size a. _____ Badger Mining Silica #20-40 250 Lbs. _____ b. Volume added _____ ft ³
17. Source of water (attach analysis, if required):		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ 1.0 ft.	10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. MSL or _____ 2.0 ft.	b. Manufacturer _____ Timco	
G. Filter pack, top _____ ft. MSL or _____ 3.0 ft.	c. Slot size: _____ 0.010 in.	
H. Screen joint, top _____ ft. MSL or _____ 4.0 ft.	d. Slotted length: _____ 10.0 ft.	
I. Well bottom _____ ft. MSL or _____ 14.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>	
J. Filter pack, bottom _____ ft. MSL or _____ 14.5 ft.		
K. Borehole, bottom _____ ft. MSL or _____ 14.5 ft.		
L. Borehole, diameter _____ 8.3 in.		
M. O.D. well casing _____ 2.37 in.		
N. I.D. well casing _____ 2.04 in.		

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

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

Facility/Project Name Decorah Shopping Center Annex			License/Permit/Monitoring Number -		Boring Number B-29	
Boring Drilled By: Name of crew chief (first, last) and Firm Craig Environmental Drilling Services			Date Drilling Started 6/3/2003		Date Drilling Completed 6/3/2003	
Drilling Method HSA						
WI Unique Well No. OW689	DNR Well ID No.	Common Well Name P-5	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
					8.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N			Lat _____ "		Local Grid Location	
SW 1/4 of NW 1/4 of Section 24 , T 11 N, R 19 E			Long _____ "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Washington	County Code 67	Civil Town/City/ or Village West Bend		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
AUGER	300		1 2 3 4 5 6 7 8 9 10 11 12	Blind Drilled										

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

Signature 	Firm KEY ENGINEERING GROUP, LTD. W66 N215 COMMERCE CT. CEDARBURG, WI 53012	Tel: (262) 375-4750 Fax: (262) 375-9680
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Boring Number **B-28**

Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
AUGER 6 SS	6			Light brown, loose, fine to medium SAND	SP			<1*	9						
	24	2	13												
	18	3	14												
		4	15												
		5	16												
AUGER 7 SS	6			-moist -medium dense	SP			<1	11						
	24	4	17												
	18	4	18												
		5	19												
AUGER 8 SS	6				SP			<1	12						
	24	3	20												
	18	4	21												
AUGER 9 SS	6				SP			<1	14						
	24	5	22												
	18	6	23												
AUGER 10 SS	6				SP			<1	12						
	24	4	24												
	18	5													
		5													
		5													
		7													
				End of soil boring at 24.5' *Sample submitted for laboratory analysis											

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

Facility/Project Name Decorah Shopping Center Annex		License/Permit/Monitoring Number -		Boring Number B-28	
Boring Drilled By: Name of crew chief (first, last) and Firm Craig Environmental Drilling Services		Date Drilling Started 6/3/2003		Date Drilling Completed 6/3/2003	
WI Unique Well No. OW688		DNR Well ID No.		Common Well Name MW-23	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 8.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/2 of NW 1/4 of Section 24 , T 11 N, R 19 E		County Washington		County Code 67	
Facility ID		Civil Town/City/ or Village West Bend			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 18	2 2 2 2	0 1	ASPHALT, sand and gravel Light brown, loose, fine to medium SAND with trace silt (fill)				<1	4					
AUGER 2 SS	6 24 16	3 3 3 3	2 3 3 4	Light brown, loose, silty, fine to medium SAND with trace clay	SP			<1	6					
AUGER 3 SS	6 24 18	2 3 4 4	5 6	Reddish-brown, loose, silty, fine to medium SAND	SP			<1*	8					
AUGER 4 SS	6 24 18	1 2 1 2	7 8	Light brown, loose, fine to medium SAND	SP			<1	3					
AUGER 5 SS	6 24 20	2 2 2 3	10 11		SP			<1	5					

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

Facility/Project Name Decorah Shopping Center Annex		License/Permit/Monitoring Number -		Boring Number B-27	
Boring Drilled By: Name of crew chief (first, last) and Firm Craig Environmental Drilling Services		Date Drilling Started 6/3/2003		Date Drilling Completed 6/3/2003	
Drilling Method HSA		WI Unique Well No. OW687		DNR Well ID No.	
Common Well Name MW-22		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 8.3 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section 24 , T 11 N, R 19 E		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	
Facility ID		County Washington		County Code 67	
		Civil Town/City/ or Village West Bend			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					Pocket Penetrometer
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 SS	24 16	2 1 2 2	1	ASPHALT and gravel				<1	4					
				Light reddish-brown, loose, silty fine SAND	SP									
AUGER 2 SS	6 24 20	3 3 3 3	2 3 3 4	Light reddish-brown, medium stiff, clayey SILT				<1	6					
					ML									
AUGER 3 SS	6 24 18	2 3 3 4	5 6	Light brown, loose, fine SAND with trace silt				<1*	7					
AUGER 4 SS	6 24 20	3 3 4 4	7 8 9					<1	8					
					SP									
AUGER 5 SS	6 24 18	3 4 4 5	10 11					<1	9					

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ATTACHMENT 1

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
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4.9E-08	2.6E-05
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MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

END