BARR

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August 21, 2007

Mr. Gary Krueger
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155

Re: Former Nutting Truck and Caster Company Site
Faribault, Minnesota

Dear Mr. Krueger:

The attached Second Quarter 2007 Tier 2 Monitoring Report for the Former Nutting Truck and Caster Company Site (Site) was prepared on behalf of Prairie Avenue Leasing, Ltd. The samples were collected and analyzed as required by the Long-Term Monitoring Plan (Barr, 2003) and the Final Close Out Report (Barr, 2003) for the Site.

Water quality concentrations in samples from the former groundwater extraction wells PW17 and PW18 have remained stable or decreased slightly over the past three years since the pumps were removed. Trichloroethylene (TCE) was detected at concentrations of 9.7 ug/L and 16 ug/L in source wells B4 and W13, and 3.2 ug/L and 6.6 ug/L in former extraction wells PW17 and PW18. No VOCs have been detected in samples from downgradient sentinel wells B8, B12 and W14.

The groundwater quality is stable and TCE concentrations in the source wells and pumpout wells are near the Health Risk Limit and the Maximum Contaminant Limit. Given the long history of decreasing or stable concentrations in samples from the source wells and former pump-out wells and the fact that TCE has never been detected in the sentinel wells, continued monitoring is no longer needed to demonstrate that the plume is stable.

This site is ready for closure and delisting. Barr requests that MPCA and U.S. EPA consider discontinuing groundwater monitoring and close the Nutting Truck and Caster Company file. Following Site closure, the Site should be removed from the U.S. EPA National Priorities List and Minnesota's Permanent List of Priorities. I would like to discuss site closure with you at your earliest convenience.

Please contact me at 612-626-7095 if you have any questions or comments regarding this request. Your timely response will be greatly appreciated.

Sincerely,

Marta Nelson for:
Janet Dalgleish

c. Stewart Shaft
Mark Kaster

Second Quarter 2007 Tier 2 Monitoring Report
Former Nutting Truck and Caster Company Site

Nutting Truck and Caster Site **Monitoring Period: Second Quarter 2007**
Tier 2 Groundwater Monitoring Program **Date: May 21, 2007**

Sample Collection and Analysis Completeness: 100%

Samples were collected from wells B4, B5, B8, B12, W13, W14, PW17, and PW18 and analyzed by Legend Technical Services for trichloroethylene, 1,1-dichlorothylene, cis-1,2-dichlorothylene, and trans-1,2-dichlorothylene and vinyl chloride.

Contingency Plan Criteria Elements

Sentinel Wells B8, B12, W14

COC concentrations are less than detection limit: Yes

Wells PW17 and PW18

TCE concentration trend is stable or decreasing: Yes, see Figures 3A and 3B

Quality Assurance Review (See Laboratory Report for Details):

Holding Time: All holding times were met by Legend Technical Services.
Duplicates: PW17, Relative Percent Difference was less than 10% for detected compounds. Duplicate results are included on Table 2.
Blanks: All parameters were reported as less than the detection limit in the trip, field and method blanks.
Surrogate Recovery: Met QA/QC requirements.
Matrix Spike Duplicate Recovery: Met QA/QC requirements.

List of Tables:	**Table 1 Groundwater Elevations** **Table 2 Water Quality Data**
List of Figures:	**Figure 1 Site Map** **Figure 2 Groundwater Elevations** **Figures 3A and 3B Mann Kendall Test Analysis**
Attachments	**Attachment A Field Data Report** **Attachment B Laboratory Data Report**

Report was prepared by:

Marta Nelson for: Janet B. Dalgleish PG No. 30407	**Date: August 20, 2007**

Tables

Table 1
Tier 2 Monitoring Results
Groundwater Elevation Data
1996-2006

(elevations in ft./MSL)

Location	B4	B5	B8	B12	W13	W14	PW17	PW18
11/25/1987	974.44	--	972.37	972.06	974.83	973.51	972.38	972.41
12/03/1987	973.89	--	972.77	970.73	974.19	971.97	946.96	971.03
12/11/1987	974.83	--	972.66	971.86	975.15	972.90	933.59	971.14
12/21/1987	973.82	--	972.64	970.72	974.16	971.88	933.59	971.58
01/13/1988	973.71	--	972.64	970.62	974.03	971.85	940.38	971.56
02/04/1988	973.64	--	972.62	970.59	973.98	971.82	938.41	971.68
03/21/1988	974.16	--	972.86	970.89	974.36	972.10	933.29	972.17
05/18/1988	974.03	--	972.04	971.79	974.33	972.16	933.28	972.34
07/27/1988	973.58	--	971.45	971.35	973.74	971.61	942.56	972.02
09/01/1988	973.27	--	971.23	970.97	973.53	971.30	949.86	962.17
11/18/1988	973.14	--	971.15	970.93	973.35	971.27	951.68	961.94
04/07/1989	--	--	--	--	--	--	945.35	964.95
05/15/1989	973.46	--	971.51	971.30	973.65	971.63	950.04	965.89
08/16/1989	972.81	--	--	--	973.0	--	951.68	964.98
10/23/1989	972.54	--	970.45	970.50	972.76	970.86	947.09	964.49
01/02/1990	--	--	--	--	972.54	--	937.61	965.04
05/08/1990	972.55	--	970.66	970.76	972.76	970.89	950.17	962.97
08/20/1990	--	--	--	--	--	--	933.39	961.99
12/11/1990	973.15	--	971.02	971.11	973.40	971.42	932.99	959.76
03/11/1991	--	--	--	--	973.08	--	933.31	961.81
06/18/1991	974.63	--	972.67	972.47	974.85	972.79	933.53	--
09/10/1991	--	--	--	--	--	--	946.68	960.22
11/21/1991	974.09	--	972.11	971.87	974.43	972.22	943.93	962.04
06/11/1992	974.86	--	972.75	972.50	975.20	972.85	949.69	967.75
09/22/1992	--	--	--	--	--	--	955.49	965.84
11/24/1992	974.75	--	--	--	975.15	--	948.14	965.00
03/29/1993	--	--	--	--	--	--	961.48	965.09
07/14/1993	976.74	--	974.51	974.24	977.13	974.63	964.16	966.60
09/08/1993	--	--	--	--	--	--	974.28	970.89
11/11/1993	975.68	--	--	--	976.15	--	966.19	966.39
05/12/1994	975.41	978.84	973.13	972.86	975.80	973.24	973.44	966.51
10/25/1994	975.60	--	--	--	975.96	--	968.19	967.04
05/24/1995	975.03	978.34	972.73	972.50	975.39	972.86	967.87	963.09
09/25/1995	974.63	--	--	--	975.07	--	962.47	966.44
08/02/1996	975.30	978.34	972.58	972.36	975.35	972.70	969.02	962.29
11/20/1996	974.49	--	--	--	974.74	--	952.89	961.59
05/30/1997	974.58	--	972.42	972.16	975.00	972.54	950.75	965.39
11/26/1997	974.94	--	--	--	975.44	--	950.84	966.39
06/02/1999	975.51	978.90	973.38	973.12	975.95	973.50	958.19	963.59
05/02/2000	974.16	977.45	972.10	969.82	974.61	972.19	964.63	961.66
03/21/2001	973.75	976.84	971.76	971.52	974.15	971.88	966.74	961.61
05/08/2002	973.84	976.97	971.78	971.56	974.27	971.93	955.92	961.59
04/17/2003	973.48	976.36	971.50	971.25	973.84	971.60	966.41	972.03
05/12/2004	973.12	975.72	971.24	970.96	973.69	971.33	955.99	961.91
12/02/2004	974.10	976.99	972.08	971.84	974.39	972.17	972.78	972.75
05/10/2005	974.09	976.78	971.99	971.72	974.36	972.08	972.71	972.68
10/25/2005	974.84	977.9	972.58	972.33	975.1	972.68	973.38	973.35
5/24/2006	975.07	978.12	972.82	972.54	975.38	972.91	973.59	973.56
10/23/2006	974.03	977.07	971.93	971.68	974.34	972.02	972.65	972.6
5/21/2007	974.14	977.20	972.01	971.74	974.46	972.08	972.74	972.71

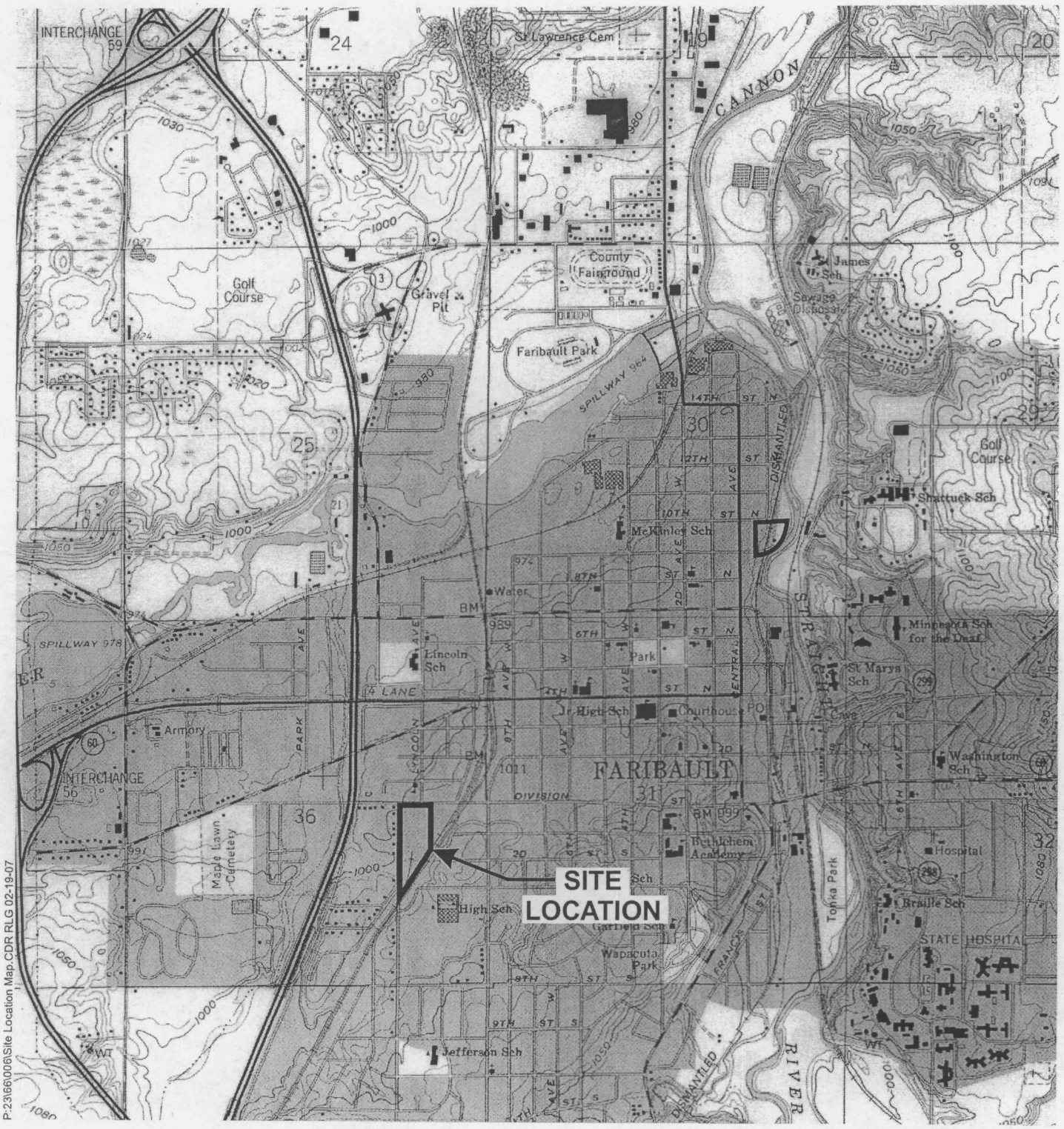
-- Not measured.

Table 2
Tier 2 Monitoring Results
Selected Volatile Organic Compounds
2nd Quarter 2007

(concentrations in ug/L)

Location	B4	B5	B8	B12	W13	W14	PW17	PW17	PW18
Date	5/21/2007	5/21/2007	5/21/2007	5/21/2007	5/21/2007	5/21/2007	5/21/2007	5/21/2007	5/21/2007
Lab	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Legend	Legend
Dup								DUP	
1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0 2.4	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethylene, cis	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	1.2	1.1	<1.0
1,2-Dichloroethylene, trans	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene	9.7	<1.0	<1.0	<1.0	16 (21)	<1.0	3.2 (1.2)	3.1	6.6 (1.0)
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	82→9.7	1.7→<1	<1.	<1		<1			

Figures



Source: USGS 7.5' Quadrangle, Faribault, MN 1991

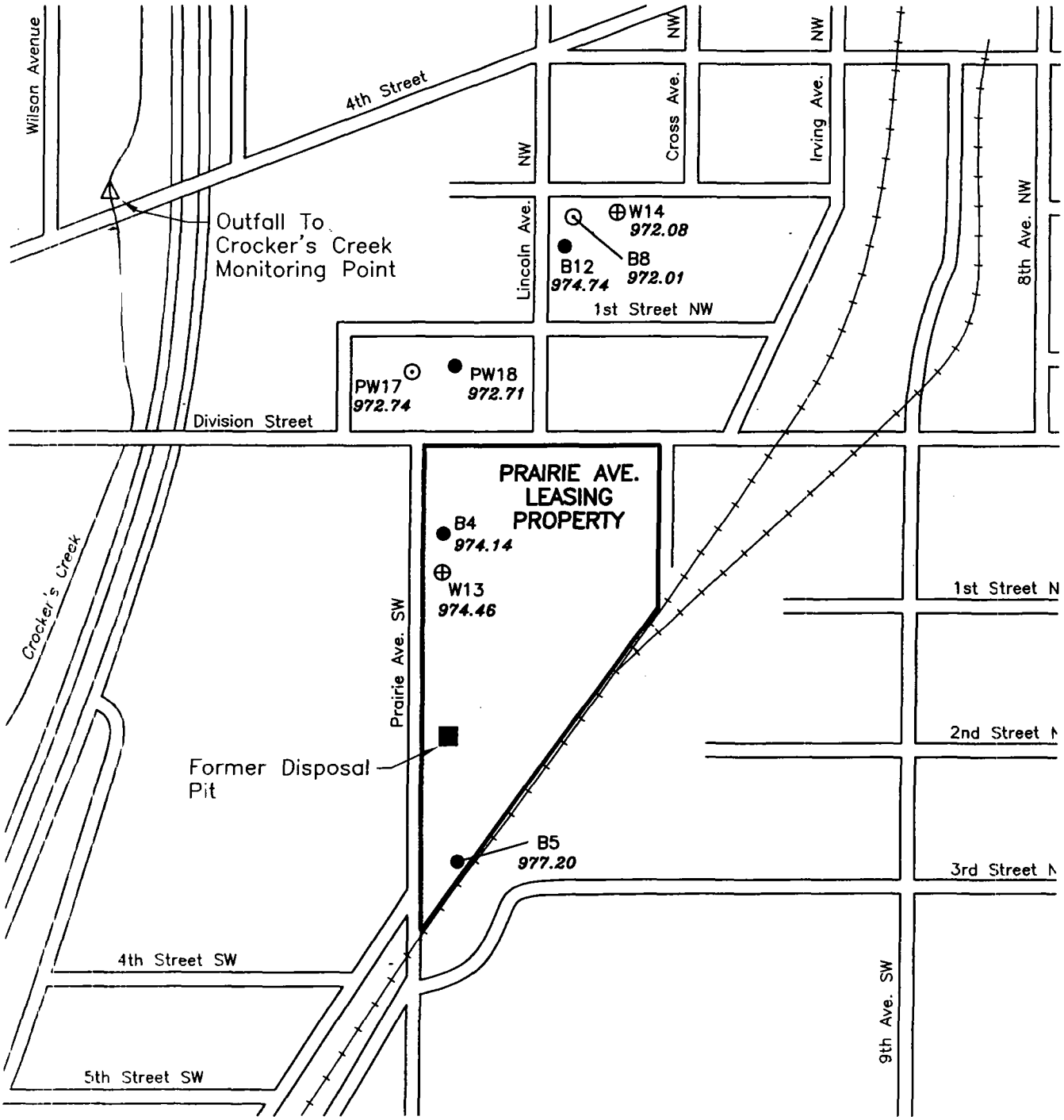
QUADRANGLE LOCATION

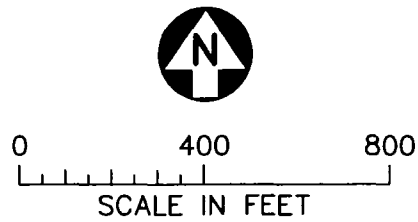
0 2000 4000

Approximate Scale in Feet

Figure 1

SITE LOCATION MAP
Prairie Avenue Leasing
Faribault, Minnesota





Monitoring Wells

- ● Glacial Drift Aquifer
- ⊙ St. Peter Sandstone Aquifer
- ⊕ Praire du Chien Aquifer

Figure 2

GROUNDWATER ELEVATIONS
MAY 2007
Nutting Truck and Caster Site
Faribault, Minnesota

RLG W:\CAD\216600R\27136_1.DWG Plot at 1 08/14/2007 09:39:45

Figure 3A

MANN-KENDALL STATISTICAL ANALYSIS

PW-17 Trichloroethene

Trichloroethene Concentrations

Date	06/02/1999	05/02/2000	03/21/2001	05/08/2002	04/17/2003	05/12/2004	12/02/2004	05/10/2005	10/25/2005	05/24/2006	10/23/2006	05/21/2007	
Sampling Event	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12	
Trichloroethene Concentrations	4.9	4	4	3.3	6.2	2.6	3.5	3	3.2	3.3	3.1	3.2	**Sum of Rows**
Compare to Event 1		1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-7
Compare to Event 2			0	-1	1	-1	-1	-1	-1	-1	-1	-1	-7
Compare to Event 3				-1	1	-1	-1	-1	-1	-1	-1	-1	-7
Compare to Event 4					1	-1	1	-1	-1	0	-1	-1	-3
Compare to Event 5						-1	-1	-1	-1	-1	-1	-1	-7
Compare to Event 6							1	1	1	1	1	1	6
Compare to Event 7								-1	-1	-1	-1	-1	-5
Compare to Event 8									1	1	1	1	4
Compare to Event 9										1	-1	0	0
Compare to Event 10											-1	-1	-2
	12	11	10	9	8	7	6	5	4	3	2	1	

Mann-Kendall Statistic (Total) =	-28.000
Total Number of Variables	66.000
Standard Deviation	0.990
tau	-0.424
Mean	3.692
COV	0.268
VAR(S)	211.667
Z	-1.856
Probability	0.032
MAROS Trend Conclusion	Decreasing

	t1 (4)	t2 (3.3)	t3 (3.2)
Number of tied values	2	2	2

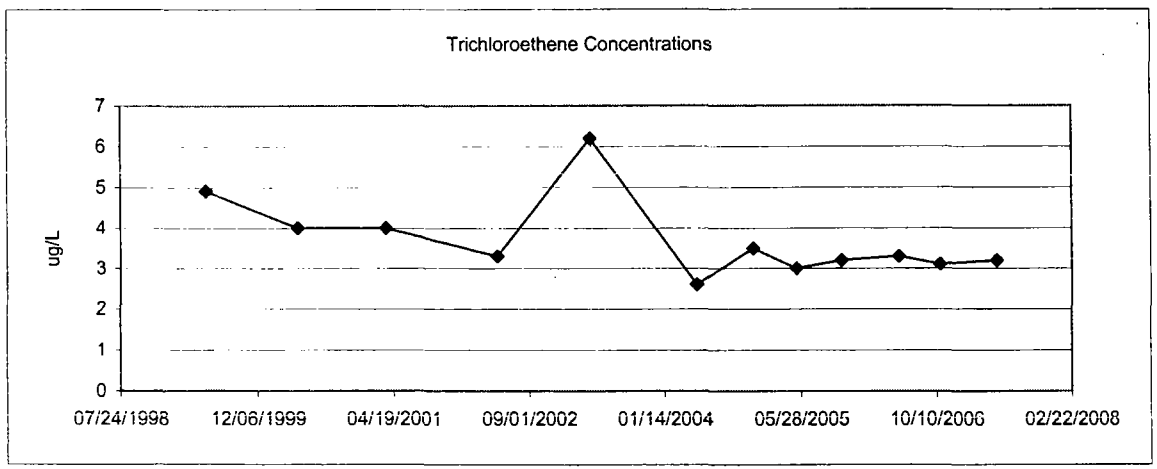


Figure 3B

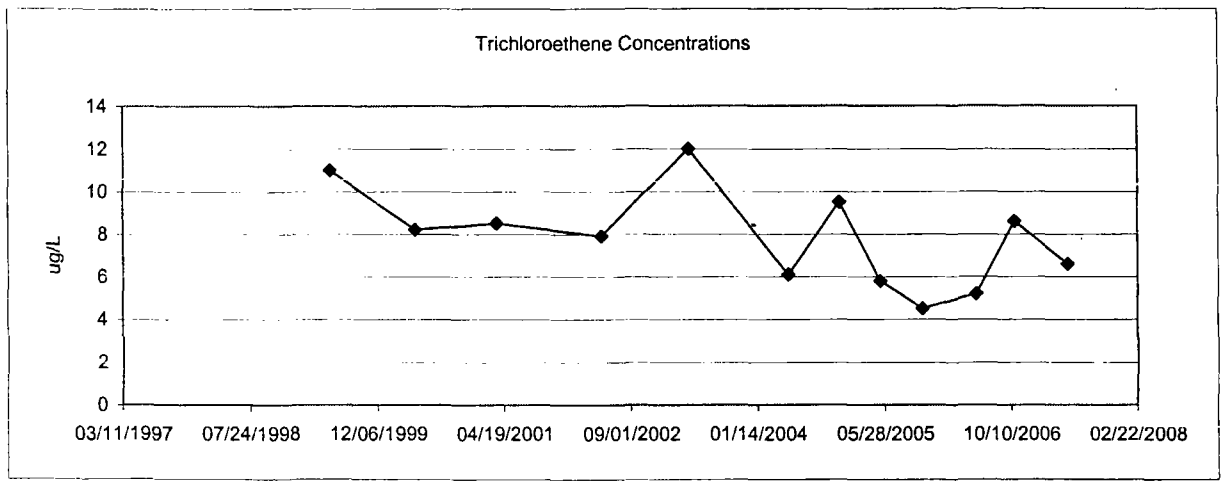
MANN-KENDALL STATISTICAL ANALYSIS

PW-18

Trichloroethene Concentrations

Date	06/02/1999	05/02/2000	03/21/2001	05/08/2002	04/17/2003	05/12/2004	12/02/2004	05/10/2005	10/25/2005	05/24/2006	10/23/2006	05/21/2007	
Sampling Event	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12	
Contaminant Concentration	11	8.2	8.5	7.9	12	6.1	9.5	5.8	4.5	5.2	8.6	6.6	**Sum of Rows**
Compare to Event 1		-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-9
Compare to Event 2			1	-1	1	-1	1	-1	-1	-1	1	-1	-2
Compare to Event 3				-1	1	-1	1	-1	-1	-1	1	-1	-3
Compare to Event 4					1	-1	1	-1	-1	-1	1	-1	-2
Compare to Event 5						-1	-1	-1	-1	-1	-1	-1	-7
Compare to Event 6							1	-1	-1	-1	1	1	0
Compare to Event 7								-1	-1	-1	-1	-1	-5
Compare to Event 8									-1	-1	1	1	0
Compare to Event 9										1	1	1	3
Compare to Event 10											1	1	2
	12	11	10	9	8	7	6	5	4	3	2	1	

Mann-Kendall Statistic (Total) =	-23
Total Number of Variables	66.000
Standard Deviation	2.297
tau	-0.348
Mean	7.825
COV	0.294
VAR(S)	212.667
Z	-1.509
Probability	0.066
MAROS Trend Conclusion	Probably Decreasing



Attachment A

BARR

FIELD SAMPLING REPORT

Date: 5/22/2007

Project: 23/66-006

Contact: Marta Nelson
Barr Engineering Company
4700 W. 77th Street
Minneapolis, MN 55435-4803

Field Sampling

2nd Tier groundwater sampling was conducted at the Prairie Avenue Site on May 21, 2007

Field Report

Attachments:

* Field log cover sheet
* Field log data summary
* Field log data sheets
* Meter calibration summary
* COC # 24804
* Analytical parameter table

Laboratory Analysis Status

Samples were delivered to Legend Technical Laboratories in St Paul on May 22, 2007
Refer to chain of custody for additional information.

Kim Johannessen
Sr. Environmental Technician

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FIELD LOG COVER SHEET
WATER SAMPLING

Client: **Prairie Avenue Leasing** **Project No:** **23/66-006**

Technician: **KSJ** **Sampling Period:** 5/21/2007

Date	Temperature	Wind Speed	Wind Direction	Cloud Cover
5/21/2007	65-78	10-20	SSE	30%

Summary of Field Activities

* Routine methods for purging and sampling for this site were followed.
* Blind duplicate sample M-1 was collected at PW17
* Field blank FB-1 was collected at PW17
* All wells were in good condition and sampling was consistent with previous events.

WATER LEVEL REPORT

Project: PRAIRIE AVE. LEASING

Project Number: 23/66-006

Staff: KSJ Date: 5/21/07

Monitoring Location	Measuring point elevation	Water level depth	Total well depth	Static water elevation	Comments
B4	1006.54	32.40	44.0	974.14	
B5	1008.74	31.54	40.0	977.20	
B8	999.28	27.27	67.0	972.01	
B12	998.16	26.42	47.0	971.74	
W13	1006.74	32.28	96.0	974.46	
W14	999.00	26.92	79.0	972.08	
B15	1007.43		43.0	--	
PW17	1007.39	34.65	73.0	972.74	
PW18	1007.39	34.68	48.5	972.71	

WATER LEVEL REPORT

Project: PRAIRIE AVE. LEASING

Project Number: 23/66-006

Staff: KSJ Date: 5/21/07

Monitoring Location	Measuring point elevation	Water level depth	Total well depth	Static water elevation	Comments
B4	1006.54	32.40	44.0	--	
B5	1008.74	31.54	40.0	--	
B8	999.28	27.27	67.0	--	
B12	998.16	26.42	47.0	--	
W13	1006.74	32.28	96.0	--	
W14	999.00	26.92	79.0	--	
B15	1007.43		43.0	--	
PW17	1007.39	34.65	73.0	--	
PW18	1007.39	34.68	48.5	--	

FIELD DATA SUMMARY

Project: PRAIRIE AVE. LEASING

Project number: 23/66-006

Staff: KSJ

Monitoring location	Date	Temp (oC)	Conductivity @ 25 oC	pH	Eh	DO mg/l
W14	**5/21/07**	**10.8**	**575**	**7.95**	**-70**	**0.41**
B12	"	**11.4**	**685**	**7.43**	**-29**	**3.00**
B8	"	**11.0**	**561**	**7.96**	**-108**	**0.10**
B5	"	**12.6**	**643**	**7.27**	**5**	**7.92**
W13	"	**12.9**	**627**	**7.52**	**-55**	**0.97**
B4	"	**13.9**	**786**	**7.07**	**6**	**7.05**
PW17	"	**12.4**	**631**	**7.81**	**-132**	**0.08**
PW18	"	**12.3**	**661**	**7.38**	**-34**	**1.48**

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Field Log Data Sheet

Client: Nutting / Prairie Ave leasing	Monitoring Point: W14
Location: Faribault	Date: 5/21/07
Project #: 23/66-006 Y07	Sample Time: 1200

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	4	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	79	0909/34g	11.05	350	8.89	-276	0.15	Clear
Static water level:*	26.92	0943/68g	10.94	596	8.70	-182	0.24	"
Water depth:*	52.1	1012/102g	10.85	589	8.53	-128	0.26	"
Well volume: (gal)	34	1046/136g	10.80	584	8.31	-114	0.31	"
Purge method:	Submersible	1125/170g	10.78	578	8.14	-97	0.36	"
Sample method:	"	1159/204g	10.83	575	7.95	-70	0.41	"
Start time:	0835	Odor: none detected						
Stop time:	1159	Purge Appearance: clear						
Duration: (minutes)	204	Sample Appearance: clear						
Rate, gpm:	1	Comments:						
Volume, purged:	204 gal							
Duplicate collected?	—							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: ✓ COLLAR: ✓ LOCK: ✓ OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Field Log Data Sheet

Client: Nutting / Prairie Ave Leasing	Monitoring Point: B12
Location: Faribault	Date: 5/21/07
Project #: 23/66-006/07	Sample Time: 1255

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	2" SS	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	47.0	1237/10g.	11.36	680	7.46	-32	2.93	slightly cloudy
Static water level:*	26.42	1245/14g.	11.35	692	7.40	-27	3.12	clearing
Water depth:*	20.6	1251/17g.	11.37	685	7.43	-29	3.00	clear
Well volume: (gal)	3.4							
Purge method:	Submersible							
Sample method:	"							
Start time:	1217	Odor: none detected						
Stop time:	1251	Purge Appearance: begin - cloudy brown / end - clear						
Duration: (minutes)	34	Sample Appearance: Clear						
Rate, gpm:	.5	Comments:						
Volume, purged:	17 gal							
Duplicate collected?	–							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: ✓ COLLAR: ✓ LOCK: ✓ OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Barr Engineering Company
Field Log Data Sheet

Client: Nutting/Prairie Ave Leasing	Monitoring Point: B8
Location: Faribault	Date: 5/21/07
Project #: 23/66-006 Y07	Sample Time: 1355

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	2" SS	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	67	1321/19g	11.21	531	8.15	-127	Ø.25	clear
Static water level:*	27.27	1327/25g	11.06	556	8.07	-119	Ø.19	"
Water depth:*	40	1343/31g	11.00	564	8.02	-110	Ø.12	"
Well volume: (gal)	6.5	1350/38g	11.02	561	7.96	-108	Ø.10	"
Purge method:	Submersible							
Sample method:	"							
Start time:	1312	Odor: none detected						
Stop time:	1350	Purge Appearance: Clear						
Duration: (minutes)	38	Sample Appearance: Clear						
Rate, gpm:	1	Comments:						
Volume, purged:	38 gal							
Duplicate collected?								
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: COLLAR: LOCK: OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR

Barr Engineering Company
Field Log Data Sheet

Client:	Natting / Prairie Ave Leasing	Monitoring Point:	B5
Location:	Faribault	Date:	5/21/07
Project #:	23/66-006 407	Sample Time:	1435

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	2" PVC	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	40	1425 / 4g	12.83	648	7.48	-2	8.17	Clear
Static water level:*	31.54	1429 / 6g	12.70	664	7.35	2	8.32	"
Water depth:*	8.5	1431 / 7g	12.59	647	7.30	4	8.01	"
Well volume: (gal)	1.4	1433 / 8g	12.55	643	7.27	5	7.92	"
Purge method:	Submersible							
Sample method:	"							
Start time:	1417	Odor: none detected						
Stop time:	1433	Purge Appearance: Clear						
Duration: (minutes)	16	Sample Appearance: Clear						
Rate, gpm:	.5	Comments:						
Volume, purged:	8 gal							
Duplicate collected?	—							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: ✓ COLLAR: ✓ LOCK: ✓ OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR

Barr Engineering Company
Field Log Data Sheet

Client:	Nutting / Prairie Ave leasing	Monitoring Point:	W13
Location:	Faribault	Date:	5/21/07
Project #:	23/66-006 Y07	Sample Time:	1905

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	4"	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	96.0	1531/42g	12.89	382	8.29	-169	Ø.09	Clear
Static water level:*	32.28	1613/84g	12.81	459	8.15	-149	Ø.17	"
Water depth:*	63.7	1654/126g	12.74	512	8.03	-123	Ø.35	"
Well volume: (gal)	42	1737/168g	12.77	553	7.90	-112	Ø.59	"
Purge method:	Submersible	1819/210g	12.89	590	7.73	-89	Ø.75	"
Sample method:	"	1902/252g	12.87	627	7.52	-55	Ø.97	"
Start time:	1449	Odor: none detected						
Stop time:	1902	Purge Appearance: Clear						
Duration: (minutes)	252	Sample Appearance: Clear						
Rate, gpm:	1	Comments:						
Volume purged:	252 gal							
Duplicate collected?	—							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present: —

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: COLLAR: LOCK: OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR

Barr Engineering Company
Field Log Data Sheet

Client: Dutting/Prairie Ave Leasing	Monitoring Point: B4
Location: Faribault	Date: 5/21/07
Project #: 23/66-006 Y07	Sample Time: 1940

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	2" PVC	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	44.0	1930/6g.	13.95	783	7.20	-4	7.11	Clear
Static water level:*	32.40	1934/8g.	13.87	785	7.10	5	7.09	"
Water depth:*	11.7	1938/10g.	13.88	786	7.07	6	7.05	"
Well volume: (gal)	1.9							
Purge method:	Submersible							
Sample method:	"							
Start time:	1918	Odor: none detected						
Stop time:	1938	Purge Appearance: Clear						
Duration: (minutes)	20	Sample Appearance: Clear						
Rate, gpm:	.5	Comments:						
Volume, purged:	10 gal							
Duplicate collected?	–							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: ✓ COLLAR: ✓ LOCK: ✓ OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR

Barr Engineering Company
Field Log Data Sheet

Client: Prairie Ave Leasing	Monitoring Point: AW 17
Location: Faribault / Northing	Date: 5/21/07
Project #: 23/66-006Y07	Sample Time: 2110

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	8"	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	73.0	2020/45g.	12.49	639	7.86	-147	0.19	Clear
Static water level:*	34.65	2042/90g.	12.44	635	7.85	-140	0.11	"
Water depth:*	38.4	2105/135g.	12.38	631	7.81	-132	0.08	"
Well volume: (gal)	91							
Purge method:	Submersible							
Sample method:	"							
Start time:	1957	Odor: none detected						
Stop time:	2105	Purge Appearance: clear						
Duration: (minutes)	68	Sample Appearance: clear						
Rate, gpm:	2	Comments:						
Volume, purged:	135 gal							
Duplicate collected?	M-1/FB-1							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: COLLAR: LOCK: OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3+3+3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR

Barr Engineering Company
Field Log Data Sheet

Client:	Prairie Ave Leasing	Monitoring Point:	PW18
Location:	Faribault / Nutting	Date:	5/21/07
Project #:	23/66-006 Y07-	Sample Time:	2215

GENERAL DATA		STABILIZATION TEST						
Barr lock:	YES							
Casing diameter:	8"	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	48.5	2139/33g.	12.33	650	7.45	-42	1.39	clear
Static water level:*	34.68	2155/66g.	12.34	657	7.41	-37	1.53	"
Water depth:*	13.8	2212/99g.	12.31	661	7.38	-34	1.48	"
Well volume: (gal)	33							
Purge method:	Submersible							
Sample method:	"							
Start time:	2122	Odor: none detected						
Stop time:	2212	Purge Appearance: clear						
Duration: (minutes)	50	Sample Appearance: clear						
Rate, gpm:	2	Comments:						
Volume, purged:	99 gal							
Duplicate collected?	–							
Sample collection by:	KSJ	CO2-	Mn2-	Fe(T)-	Fe2-			

Others present:

WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)

CASING & CAP: COLLAR: LOCK: OTHER:

MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:

VOC- 3 semi-volatile- general- nutrient- cyanide- DRO- Sulfide-

oil,grease- bacteria- total metal- filtered metal- methane- filter-

Others:

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

BARR ENGINEERING COMPANY
METER CALIBRATION SUMMARY

PROJECT Nutting / Prairie Ave Leaking
TECHNICIAN RSJ

WEATHER CONDITIONS

Date	Wind Direction	Wind Speed	Temperature F	Cloud Cover	Comments
5/21/07	SSE	10-20	65-78	30%	

Meter type and number	Date	Time	Temperature C	Standard Solution	pH Meter Reading	Cond. Cell Result	ORP Reading
YSI 556	5/21/07	0810	18	7/10	7.00/10.00	1000 umhos	239

231 +/- 10mV @ 25C
231 mV = Display Value + [(Display Temp. - 25 C) x (1.3 mV)]

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC _____ of _____

Project Number: 23/66-006.Y07

Project Name: 24803

Project Manager: MSH

Project Contact: MSH

Sampled by: KSJ

Laboratory: Legend

Number of Containers/Preservative

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: Volatile Organics (Pres.) *1	Water: Semivolatile Organics *2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (Unpreserved) *3	Water: Cyanide (NaOH)	Water: Nutrients (H_2SO_4) *4	Water: Oil and Grease (H_2SO_4)	Water: Sulfide (Zn Acetate)	Water: Methane	Water: Bacteria ($Na_2S_2O_3$)	Water: DRO (HCl)	Soil: VOCs (2-oz tared MeOH) *1	Soil: GRO, BTEX (2-oz tared MeOH) *1	Soil: DRO (2-oz tared) - 25 grams	Soil: Metals (2-oz unpreserved)	Soil: SVOCs (2 or 4-oz unpres.) *2	Soil: % Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. W14	5/21/07	1200	✓		✓			3																		3	Partial List VOCs
2. B12		1255	✓		✓			3																		3	
3. B8		1355	✓		✓			3																		3	
4. B5		1435	✓		✓			3																		3	
5. W13		1905	✓		✓			3																		3	
6. B4		1940	✓		✓			3																		3	
7. PW17		2110	✓		✓			3																		3	
8. PW18		2215	✓		✓			3																		3	
9. M-1 (PW-17)																											
10. FB-1																											
11. TB																											
12.																											

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Dean Hannesson	Y N	5/22/07				
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

Attachment B

LEGEND
Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

RECEIVED
JUN 13 2007
BARR ENGINEERING CO.

June 05, 2007

Ms. Marta Nelson
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0702449
RE: 23/66-006

Enclosed are the results of analyses for samples received by the laboratory on 05/22/07. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri A. Olson

Terri Olson
Client Manager II
tolson@legend-group.com

Lisa Bloomgren

Lisa Bloomgren
QA/QC Coordinator
lbloomgren@legend-group.com

M-1 = PW17

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LEGEND
Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W14	0702449-01	Water	05/21/07 12:00	05/22/07 09:30
B12	0702449-02	Water	05/21/07 12:55	05/22/07 09:30
B8	0702449-03	Water	05/21/07 13:55	05/22/07 09:30
B5	0702449-04	Water	05/21/07 14:35	05/22/07 09:30
W13	0702449-05	Water	05/21/07 19:05	05/22/07 09:30
B4	0702449-06	Water	05/21/07 19:40	05/22/07 09:30
PW17	0702449-07	Water	05/21/07 21:10	05/22/07 09:30
PW18	0702449-08	Water	05/21/07 22:15	05/22/07 09:30
M-1	0702449-09	Water	05/21/07 00:00	05/22/07 09:30
FB-1	0702449-10	Water	05/21/07 00:00	05/22/07 09:30
Trip Blank	0702449-11	Water	05/14/07 00:00	05/22/07 09:30

Shipping Container Information

Default Cooler Temperature (°C): 2.6

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

Recoveries for trichloroethene in the MS/MSD were below laboratory limits. Recoveries in the LCS/LCSD samples were within limits. Sample W13 was used as the MS/MSD source sample.

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W14 (0702449-01) Water Received:05/22/07 09:30 Sampled:05/21/07 12:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2509	05/24/07	05/24/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*100*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
B12 (0702449-02) Water Received:05/22/07 09:30 Sampled:05/21/07 12:55										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2509	05/24/07	05/24/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.2*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*100*			*80-120 %*		"	"	"	"	
B8 (0702449-03) Water Received:05/22/07 09:30 Sampled:05/21/07 13:55										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*98.7*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*99.8*			*80-120 %*		"	"	"	"	
B5 (0702449-04) Water Received:05/22/07 09:30 Sampled:05/21/07 14:35										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LEGEND
Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5 (0702449-04) Water Received:05/22/07 09:30 Sampled:05/21/07 14:35										
Surrogate: 4-Bromofluorobenzene	*98.7*			*80-125 %*		*B7E2511*	*05/25/07*	*05/25/07*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*98.9*			*80-120 %*		"	"	"	"	
W13 (0702449-05) Water Received:05/22/07 09:30 Sampled:05/21/07 19:05										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	**1.7**	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**16**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
B4 (0702449-06) Water Received:05/22/07 09:30 Sampled:05/21/07 19:40										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**9.7**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*100*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*100*			*80-120 %*		"	"	"	"	
PW17 (0702449-07) Water Received:05/22/07 09:30 Sampled:05/21/07 21:10										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	**1.2**	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**3.2**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*100*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*102*			*80-120 %*		"	"	"	"	
PW18 (0702449-08) Water Received:05/22/07 09:30 Sampled:05/21/07 22:15										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	

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LEGEND
Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marla Nelson	June 05, 2007

VOC GCMS 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PW18 (0702449-08) Water Received:05/22/07 09:30 Sampled:05/21/07 22:15										
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**6.6**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
M-1 (0702449-09) Water Received:05/22/07 09:30 Sampled:05/21/07 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	**1.1**	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**3.1**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*107*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*102*			*80-120 %*		"	"	"	"	
FB-1 (0702449-10) Water Received:05/22/07 09:30 Sampled:05/21/07 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2511	05/25/07	05/25/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.0*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
Trip Blank (0702449-11) Water Received:05/22/07 09:30 Sampled:05/14/07 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B7E2509	05/24/07	05/24/07	EPA 8260B	
cis-1,2-Dichloroethene	<1.0	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*95.4*			*80-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*107*			*80-121 %*		"	"	"	"	

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Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
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Fax: 651-642-1239

Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0702449-11) Water Received:05/22/07 09:30 Sampled:05/14/07 00:00										
Surrogate: Toluene-d8	*101*			*80-120 %*		*B7E2509*	*05/24/07*	*05/24/07*	*EPA 8260B*	

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Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B7E2509 - Volatiles											
Blank (B7E2509-BLK1)					Prepared & Analyzed: 05/24/07						
1,1-Dichloroethene	< 1.0	1.0	0.20	ug/L							
cis-1,2-Dichloroethene	< 1.0	1.0	0.29	ug/L							
trans-1,2-Dichloroethene	< 1.0	1.0	0.17	ug/L							
Trichloroethene	< 1.0	1.0	0.28	ug/L							
Vinyl chloride	< 1.0	1.0	0.31	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.7*			*ug/L*	*61.0*		*97.9*	*80-125*			
Surrogate: Dibromofluoromethane	*62.5*			*ug/L*	*61.0*		*102*	*80-121*			
Surrogate: Toluene-d8	*60.7*			*ug/L*	*61.0*		*99.5*	*80-120*			
LCS (B7E2509-BS1)					Prepared & Analyzed: 05/24/07						
1,1-Dichloroethene	47.9	1.0	0.20	ug/L	50.0		95.8	80-120			
cis-1,2-Dichloroethene	49.2	1.0	0.29	ug/L	50.0		98.4	80-120			
trans-1,2-Dichloroethene	49.3	1.0	0.17	ug/L	50.0		98.6	80-120			
Trichloroethene	48.8	1.0	0.28	ug/L	50.0		97.6	80-120			
Vinyl chloride	50.8	1.0	0.31	ug/L	50.0		102	75-125			
Surrogate: 4-Bromofluorobenzene	*64.6*			*ug/L*	*61.0*		*106*	*80-125*			
Surrogate: Dibromofluoromethane	*62.3*			*ug/L*	*61.0*		*102*	*80-121*			
Surrogate: Toluene-d8	*63.1*			*ug/L*	*61.0*		*103*	*80-120*			
Matrix Spike (B7E2509-MS1)		**Source: 0702361-01**			Prepared & Analyzed: 05/24/07						
1,1-Dichloroethene	49.4	1.0	0.20	ug/L	50.0	<1.0	98.8	80-120			
cis-1,2-Dichloroethene	50.7	1.0	0.29	ug/L	50.0	<1.0	101	80-120			
trans-1,2-Dichloroethene	50.6	1.0	0.17	ug/L	50.0	<1.0	101	80-120			
Trichloroethene	48.9	1.0	0.28	ug/L	50.0	<1.0	97.8	75-125			
Vinyl chloride	52.3	1.0	0.31	ug/L	50.0	<1.0	105	75-125			
Surrogate: 4-Bromofluorobenzene	*65.3*			*ug/L*	*61.0*		*107*	*80-125*			
Surrogate: Dibromofluoromethane	*61.4*			*ug/L*	*61.0*		*101*	*80-121*			
Surrogate: Toluene-d8	*62.9*			*ug/L*	*61.0*		*103*	*80-120*			

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Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B7E2509 - Volatiles											
Matrix Spike Dup (B7E2509-MSD1)		**Source: 0702361-01**			Prepared & Analyzed: 05/24/07						
1,1-Dichloroethene	49.0	1.0	0.20	ug/L	50.0	<1.0	98.0	80-120	0.813	20	
cis-1,2-Dichloroethene	49.4	1.0	0.29	ug/L	50.0	<1.0	98.8	80-120	2.60	20	
trans-1,2-Dichloroethene	49.7	1.0	0.17	ug/L	50.0	<1.0	99.4	80-120	1.79	20	
Trichloroethene	49.8	1.0	0.28	ug/L	50.0	<1.0	99.6	75-125	1.82	20	
Vinyl chloride	50.3	1.0	0.31	ug/L	50.0	<1.0	101	75-125	3.90	20	
Surrogate: 4-Bromofluorobenzene	*64.5*			*ug/L*	*61.0*		*106*	*80-125*			
Surrogate: Dibromofluoromethane	*62.9*			*ug/L*	*61.0*		*103*	*80-121*			
Surrogate: Toluene-d8	*62.7*			*ug/L*	*61.0*		*103*	*80-120*			
Batch B7E2511 - Volatiles											
Blank (B7E2511-BLK1)					Prepared & Analyzed: 05/25/07						
1,1-Dichloroethene	< 1.0	1.0	0.20	ug/L							
cis-1,2-Dichloroethene	< 1.0	1.0	0.29	ug/L							
trans-1,2-Dichloroethene	< 1.0	1.0	0.17	ug/L							
Trichloroethene	< 1.0	1.0	0.28	ug/L							
Vinyl chloride	< 1.0	1.0	0.31	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.3*			*ug/L*	*61.0*		*97.2*	*80-125*			
Surrogate: Dibromofluoromethane	*62.8*			*ug/L*	*61.0*		*103*	*80-121*			
Surrogate: Toluene-d8	*61.8*			*ug/L*	*61.0*		*101*	*80-120*			
LCS (B7E2511-BS1)					Prepared & Analyzed: 05/25/07						
1,1-Dichloroethene	47.1	1.0	0.20	ug/L	50.0		94.2	80-120			
cis-1,2-Dichloroethene	47.9	1.0	0.29	ug/L	50.0		95.8	80-120			
trans-1,2-Dichloroethene	47.6	1.0	0.17	ug/L	50.0		95.2	80-120			
Trichloroethene	48.5	1.0	0.28	ug/L	50.0		97.0	80-120			
Vinyl chloride	46.6	1.0	0.31	ug/L	50.0		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	*65.2*			*ug/L*	*61.0*		*107*	*80-125*			
Surrogate: Dibromofluoromethane	*62.5*			*ug/L*	*61.0*		*102*	*80-121*			
Surrogate: Toluene-d8	*63.7*			*ug/L*	*61.0*		*104*	*80-120*			

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Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

VOC GCMS 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B7E2511 - Volatiles											
Matrix Spike (B7E2511-MS1)		**Source: 0702449-05**			Prepared & Analyzed: 05/25/07						
1,1-Dichloroethene	47.2	1.0	0.20	ug/L	50.0	<1.0	94.4	80-120			
cis-1,2-Dichloroethene	47.7	1.0	0.29	ug/L	50.0	1.69	92.0	80-120			
trans-1,2-Dichloroethene	47.7	1.0	0.17	ug/L	50.0	<1.0	95.4	80-120			
Trichloroethene	48.7	1.0	0.28	ug/L	50.0	16.2	65.0 ✓	75-125			QM-07
Vinyl chloride	45.4	1.0	0.31	ug/L	50.0	<1.0	90.8	75-125			
Surrogate: 4-Bromofluorobenzene	*64.4*			*ug/L*	*61.0*		*106*	*80-125*			
Surrogate: Dibromofluoromethane	*62.4*			*ug/L*	*61.0*		*102*	*80-121*			
Surrogate: Toluene-d8	*63.5*			*ug/L*	*61.0*		*104*	*80-120*			
Matrix Spike Dup (B7E2511-MSD1)		**Source: 0702449-05**			Prepared & Analyzed: 05/25/07						
1,1-Dichloroethene	47.5	1.0	0.20	ug/L	50.0	<1.0	95.0	80-120	0.634	20	
cis-1,2-Dichloroethene	48.3	1.0	0.29	ug/L	50.0	1.69	93.2	80-120	1.25	20	
trans-1,2-Dichloroethene	47.7	1.0	0.17	ug/L	50.0	<1.0	95.4	80-120	0.00	20	
Trichloroethene	49.4	1.0	0.28	ug/L	50.0	16.2	66.4 ✓	75-125	1.43	20	QM-07
Vinyl chloride	45.5	1.0	0.31	ug/L	50.0	<1.0	91.0	75-125	0.220	20	
Surrogate: 4-Bromofluorobenzene	*63.2*			*ug/L*	*61.0*		*104*	*80-125*			
Surrogate: Dibromofluoromethane	*62.7*			*ug/L*	*61.0*		*103*	*80-121*			
Surrogate: Toluene-d8	*63.1*			*ug/L*	*61.0*		*103*	*80-120*			

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Barr Engineering Co.	Project: 23/66-006	
4700 W 77th St	Project Number: 23/66-006Y07	**Date Reported:**
Minneapolis MN, 55435	Project Manager: Ms. Marta Nelson	June 05, 2007

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
<	Less than value listed
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit

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Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600 0702449

Project Number: 23/66-006.Y.07

Project Name

№ 24804

COC ____ of ____

Project Manager: MSH

Project Contact: MSH

Sampled by: KSJ

Laboratory: Legend

Number of Containers/Preservative — Water: Volatile Organics (Pres.) *1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved) *3; Cyanide (NaOH); Nutrients (H_2SO_4) *4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH) *1; GRO, BTEX (2-oz tared MeOH) *1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.) *2; % Moisture (plastic vial, unpres.). Total No. Of Containers.

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Total No. Of Containers	Remarks
1. -01 W14	5/21/07	1200	✓		✓			3	3	Partial List VOCs
2. -02 B12		1255	✓		✓			3	3	"
3. -03 B8		1355	✓		✓			3	3	
4. -04 B5		1435	✓		✓			3	3	
5. -05 W13		1905	✓		✓			3	3	
6. -06 B4		1940	✓		✓			3	3	
7. -07 PW17		2110	✓		✓			3	3	
8. -08 PW18		2215	✓		✓			3	3	
9. -09 M-1										
10. -10 FB-1										
11. -11 TB									1	
12.										on ice 2.6

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice? Y/N	Date	Time	Received by:	Date	Time
Kim Charnesson	Y	5/22/07				
Relinquished By:	On Ice? Y N	Date	Time	Received by: Rabal Meier	Date 5/22/07	Time 9:30

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other RA Lee

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STD\FORMS\Chain Of Custody Form RLG Rev. 07\01\05

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