BARR

Barr Engineering Company
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MPCA, REM DIVISION
PLR/SF SECTION

September 5, 2006

EPA Region 5 Records Ctr.
378983

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

Re: Nutting Truck and Caster Company Site
Faribault, Minnesota

Dear Mr. Krueger:

On behalf of Prairie Avenue Leasing, Barr Engineering is submitting the Tier 2 Monitoring Report for data collected during the second quarter 2006 as required by the Long Term Monitoring Plan. As indicated by the data, the plume appears to be stable.

Please contact me if you have any question concerning this document.

Sincerely,

Marta Nelson

c: Stewart Shaft
Mark Kaster

Second Quarter 2006 Tier 2 Monitoring Report
Former Nutting Truck and Caster Company Site

Nutting Truck and Caster Site **Monitoring Period: Second Quarter 2006**
Tier 2 Groundwater Monitoring Program **Date: May 24, 2006**

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 Differences were less than 10% for all parameters. Duplicate values 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:

[illegible] for: **Janet B. Dalgleish PG No. 30407**	**Date: September 5, 2006**

Table 1
Tier 2 Groundwater Elevations
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

-- Not measured.

Table 1
Tier 2 Monitoring Results
Groundwater Elevation Data
1996-2006
(elevations in ft./MSL)

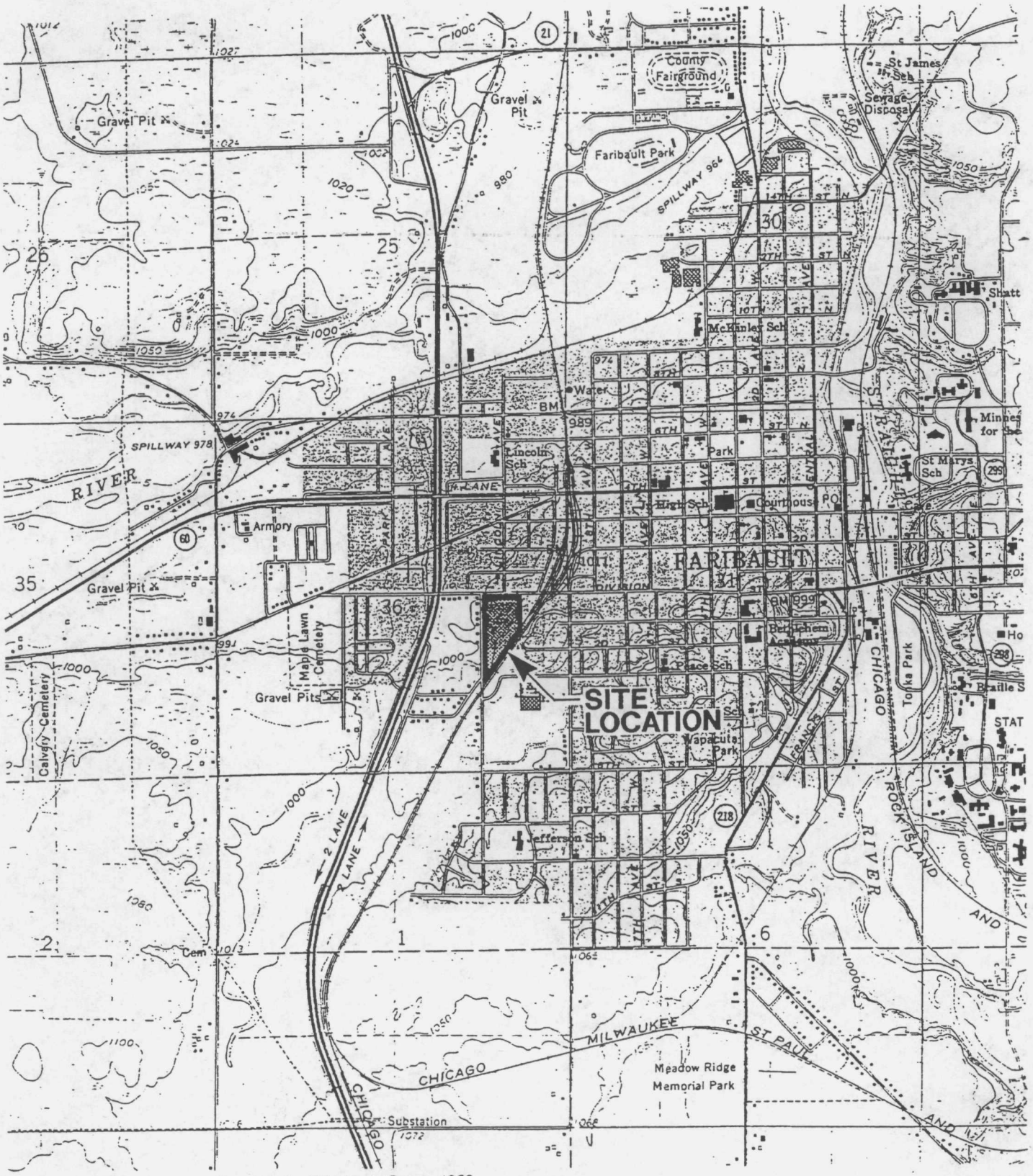
Location	B4	B5	B8	B12	W13	W14	PW17	PW18
11/25/1987	974.44	--	972.37	972.06	974.83	973.51	972.38	972.41
12/03/1987	973.89	--	972.77	970.73	974.19	971.97	946.96	971.03
12/11/1987	974.83	--	972.66	971.86	975.15	972.90	933.59	971.14
12/21/1987	973.82	--	972.64	970.72	974.16	971.88	933.59	971.58
01/13/1988	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

-- Not measured.

Table 1
Tier 2 Monitoring Results
Selected Volatile Organic Compounds

(concentrations in ug/L)

Location	B4	B5	B8	B12	W13	W14	PW17	PW17	PW18
Date	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006	5/24/2006
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	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethylene, cis	<1.0	<1.0	<1.0	<1.0	**2.9**	<1.0	<1.0	<1.0	<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	**17**	**1.6**	<1.0	<1.0	**17**	<1.0	**3.3**	**2.9**	**5.2**
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0



Source: Faribault, Minnesota Quadrangle, 7.5 Minute Series, 1960

0 2000 4000

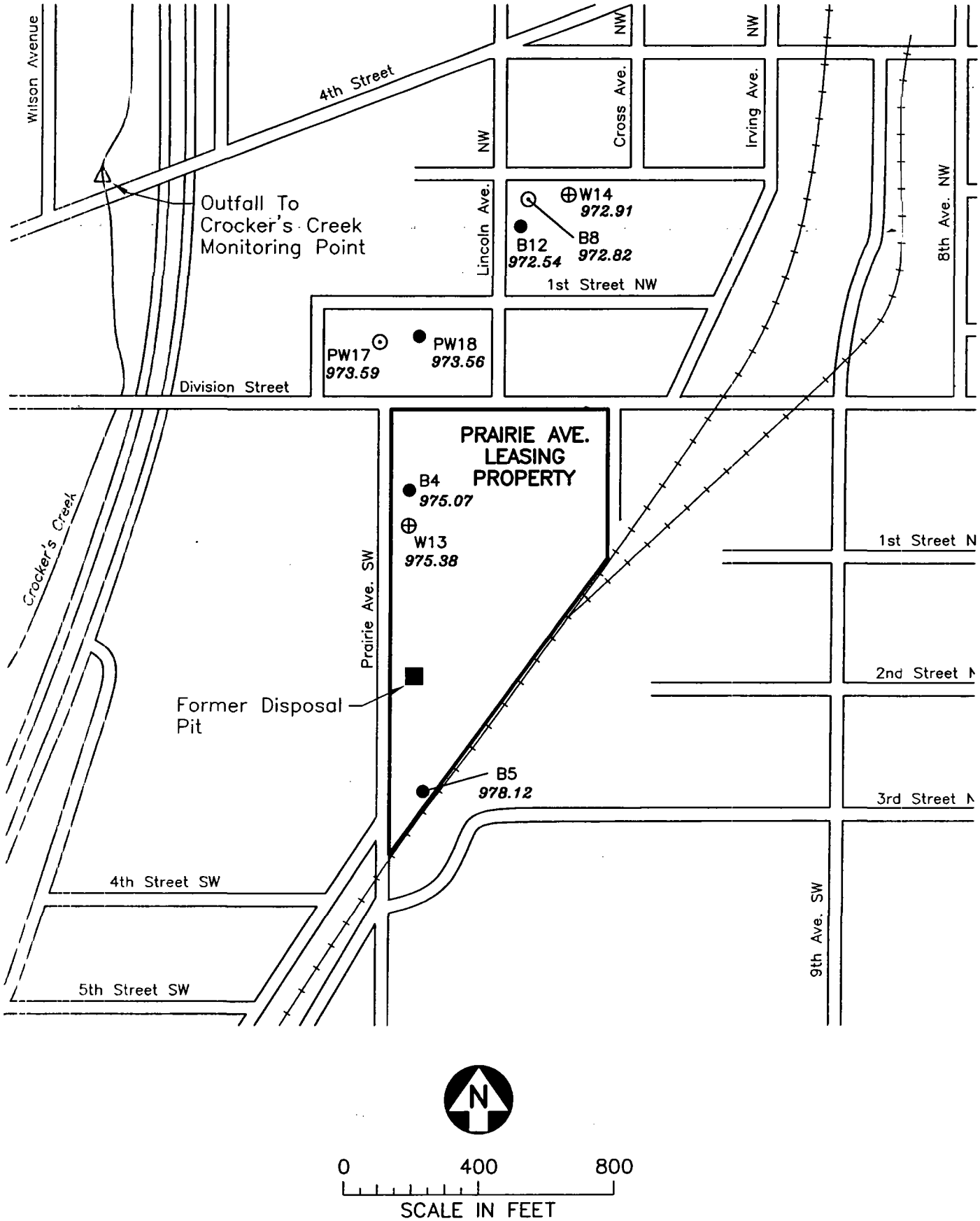
Scale in Feet

QUADRANGLE LOCATION

Figure 1

SITE LOCATION MAP

Prairie Avenue Leasing
Faribault, Minnesota



RLG M:\CAD\236G006\24295_1.DWG Plot at 1 08/08/2006 09:44:36

Monitoring Wells

- Glacial Drift Aquifer
- St. Peter Sandstone Aquifer
- Praire du Chien Aquifer

Figure 2

GROUNDWATER ELEVATIONS
MAY 2006
Nutting Truck and Caster Site
Faribault, Minnesota

Figure 3A
MANN-KENDALL STATISTICAL ANALYSIS
PW-17 Trichloroethene

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	
Sampling Event	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	
Trichloroethene Concentratio	4.9	4	4	3.3	6.2	2.6	3.5	3	3.2	3.3	**Sum of Rows**
Compare to Event 1		1	-1	-1	1	-1	-1	-1	-1	-1	-5
Compare to Event 2			0	-1	1	-1	-1	-1	-1	-1	-5
Compare to Event 3				-1	1	-1	-1	-1	-1	-1	-5
Compare to Event 4					1	-1	1	-1	-1	0	-1
Compare to Event 5						-1	-1	-1	-1	-1	-5
Compare to Event 6							1	1	1	1	4
Compare to Event 7								-1	-1	-1	-3
Compare to Event 8									1	1	2
Compare to Event 9										1	1
	10	9	8	7	6	5	4	3	2	1	

Mann-Kendall Statistic (Total) =	-17.000
Total Number of Variables	45.000
Standard Deviation	1.058
tau	-0.378
Mean	3.800
COV	0.279
MAROS Trend Conclusion	Probably Decreasi

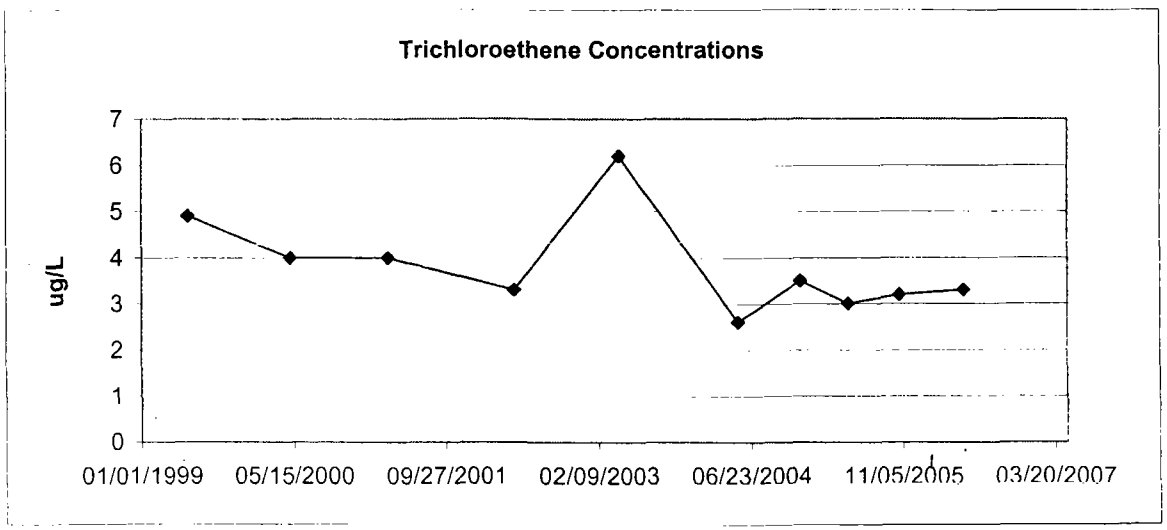


Figure 3B

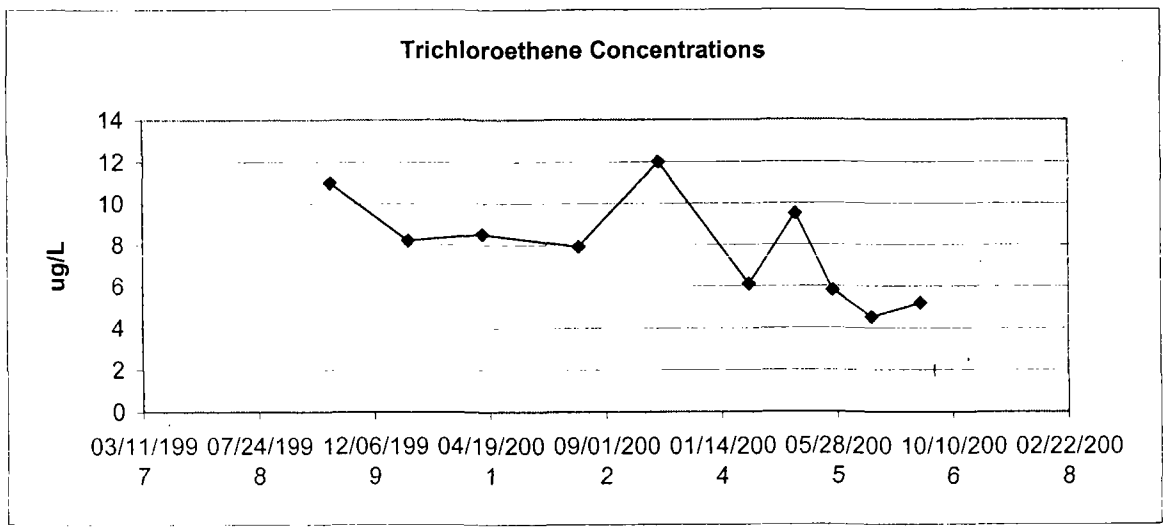
MANN-KENDALL STATISTICAL ANALYSIS

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	
Sampling Event	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	
Contaminant Concentration	11	8.2	8.5	7.9	12	6.1	9.5	5.8	4.5	5.2	**Sum of Rows**
Compare to Event 1		-1	-1	-1	1	-1	-1	-1	-1	-1	-7
Compare to Event 2			1	-1	1	-1	1	-1	-1	-1	-2
Compare to Event 3				-1	1	-1	1	-1	-1	-1	-3
Compare to Event 4					1	-1	1	-1	-1	-1	-2
Compare to Event 5						-1	-1	-1	-1	-1	-5
Compare to Event 6							1	-1	-1	-1	-2
Compare to Event 7								-1	-1	-1	-3
Compare to Event 8									-1	-1	-2
Compare to Event 9										1	1

Mann-Kendall Statistic (Total) =	-25
Total Number of Variables	45.000
Standard Deviation	2.493
tau	-0.556
Mean	7.870
COV	0.317
MAROS Trend Conclusion	Decreasing



Attachment A

BARR

FIELD SAMPLING REPORT

Date: 6/22/2006

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 24, 2006

Field Report

Attachments:

* Field log cover sheet
* Field log data summary
* Field log data sheets
* Meter calibration summary
* COC # 21698
* Analytical parameter table

Laboratory Analysis Status

Samples were delivered to Legend Technical Laboratories in St Paul on May 25, 2006
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:** 5/24/2006

Date	Temperature	Wind Speed	Wind Direction	Cloud Cover
5/24/2006	70-80	5-15	SSE	50%

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 PW18
* 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: 5/24/06

Monitoring Location	Measuring point elevation	Water level depth	Total well depth	Static water elevation	Comments
B4	1006.54	31.47	44.0	975.07	
B5	1008.74	30.62	40.0	978.12	
B8	999.28	26.46	67.0	972.82	
B12	998.16	25.62	47.0	972.54	
W13	1006.74	31.36	96.0	975.38	
W14	999.00	26.09	79.0	972.91	
B15	1007.43		43.0	--	
PW17	1007.39	33.80	73.0	973.59	
PW18	1007.39	33.83	48.5	973.56	

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	**5/24/06**	**10.5**	**657**	**7.19**	**-98**	**0.40**
B12	"	**11.1**	**775**	**7.03**	**5**	**3.81**
B8	"	**10.7**	**635**	**7.29**	**-78**	**0.07**
B5	"	**10.5**	**623**	**6.65**	**98**	**7.51**
W13	"	**11.6**	**727**	**6.78**	**-12**	**1.45**
B4	"	**12.4**	**921**	**6.60**	**64**	**5.71**
PW17	"	**11.2**	**719**	**6.85**	**-37**	**0.14**
PW18	"	**11.4**	**735**	**6.88**	**22**	**1.27**

Kim Johannessen

From: Marta Nelson **Sent:** Mon 5/22/2006 9:58 AM
To: Kim Johannessen
Cc:
Subject: Nutting...
Attachments:

Kim,

The site should be monitored following the Tier 2 monitoring program which is what was performed last fall. OK? That's B4, B5, B8, B12, W13, PW17 and PW18, W14 for selected VOCs at Legend..11DCE, 12DCE, cis and trans, TCE and Vinyl Chloride...
field parameters, temp, DO, Eh, pH, spcond, water levels....

Let me know if you have any questions.

Thanks!

WATER LEVEL REPORT

Project: PRAIRIE AVE. LEASING

Project Number: 23/66-006

Staff: KSJ Date: 5-24-06

Monitoring Location	Measuring point elevation	Water level depth	Total well depth	Static water elevation	Comments
B4	1006.54	31.47	44.0	--	
B5	1008.74	30.62	40.0	--	
B8	999.28	26.46	67.0	--	
B12	998.16	25.62	47.0	--	
W13	1006.74	31.36	96.0	--	
W14	999.00	26.09	79.0	--	
B15	1007.43	—	43.0	--	
PW17	1007.39	33.80	73.0	--	
PW18	1007.39	33.83	48.5	--	

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Barr Engineering Company
Field Log Data Sheet

Client: Prairie Ave Leasing	Monitoring Point: W14
Location: Faribault	Date: 5-24-06
Project #: 2366-006	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	0940/35g.	10.7	369	7.45	-228	0.29	Clear
Static water level:*	26.09	1010/70g.	10.6	520	7.37	-175	0.37	"
Water depth:*	52.9	1050/105g.	10.5	635	7.29	-120	0.34	"
Well volume: (gal)	35	1125/140g.	10.5	648	7.22	-103	0.38	"
Purge method:	Submersible	1200/175g.	10.5	657	7.19	-98	0.40	"
Sample method:	Bailer							
Start time:	0905	Odor: none detected						
Stop time:	1200	Purge Appearance: clear						
Duration: (minutes)	175	Sample Appearance: clear						
Rate gpm:	1	Comments:						
Volume, purged:	175 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:** B12
Location: Faribault	**Date:** 5-24-06
Project #: - 23/66-006	**Sample Time:** 1230

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	1222/10g.	11.1	774	7.08	-21	3.75	Clear
Static water level:*	25.62	1226/14g.	11.1	764	7.05	-8	3.89	"
Water depth:*	21.4	1230/18g.	11.1	775	7.03	5	3.81	"
Well volume: (gal)	3.5							
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1212	Odor: none detected						
Stop time:	1230	Purge Appearance: begin - cloudy red/brown lend -						
Duration: (minutes)	18	Sample Appearance:						
Rate, gpm:	1	Comments:						
Volume, purged:	18 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:	B8
Location:	Faribault	Date:	5-24-06
Project #:	23/66-006	Sample Time:	1325

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	1300/21g.	10.7	599	7.45	-100	0.19	Clear
Static water level:*	26.46	1307/28g.	10.7	611	7.38	-84	0.11	"
Water depth:*	40.5	1314/35g.	10.7	627	7.32	-80	0.08	"
Well volume: (gal)	7	1321/42g	10.7	635	7.29	-78	0.07	"
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1239	Odor: none detected						
Stop time:	1321	Purge Appearance: clear						
Duration: (minutes)	42	Sample Appearance: clear						
Rate, gpm:	1	Comments:						
Volume, purged:	42 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:	B5
Location:	Faribault	Date:	5/24/06
Project #:	23/66-006	Sample Time:	1430

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.	1409/5g.	10.5	619	6.81	89	7.12	clear
Static water level:*	30.62	1413/6g.	10.5	622	6.73	95	7.39	"
Water depth:*	9.4	1421/8g.	10.5	623	6.69	97	7.57	"
Well volume: (gal)	1.5	1428/10g.	10.5	623	6.65	98	7.51	"
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1349	Odor:	none detected					
Stop time:	1428	Purge Appearance:	clear					
Duration: (minutes)	40	Sample Appearance:	clear					
Rate, gpm:	.25	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: W13
Location: Faribault	Date: 5/24/06
Project #: 23/66-006	Sample Time: 1705

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	1538/42g.	11.6	719	6.70	11	1.57	clear
Static water level:*	31.36	1620/84g.	11.6	723	6.74	1	1.39	"
Water depth:*	64.7	1702/126g.	11.6	727	6.78	-12	1.45	"
Well volume: (gal)	42							
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1456	Odor: none detected						
Stop time:	1702	Purge Appearance: clear						
Duration: (minutes)	126	Sample Appearance: clear						
Rate, gpm:	1	Comments:						
Volume, purged:	126 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:**	B4
Location:	Faribault	**Date:**	5/24/06
Project #:	23/66.006	**Sample Time:**	1735

GENERAL DATA		STABILIZATION TEST						
Barr lock:	Yes							
Casing diameter:	2"	Time/ Volume	Temp. °C	Cond. @ 25	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*	44.0	1725/6g	12.4	919	6.74	22	5.51	clear
Static water level:*	31.47	1729/8g	12.4	921	6.68	41	5.69	"
Water depth:*	12.53	1731/10g	12.4	920	6.63	56	5.73	"
Well volume: (gal)	2	1735/12g	12.4	921	6.60	64	5.71	"
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1713	Odor: none detected						
Stop time:	1735	Purge Appearance: clear						
Duration: (minutes)	24	Sample Appearance: clear						
Rate, gpm:	.5	Comments:						
Volume, purged:	12 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:	PW 17
Location:	Faribault	Date:	5/24/06
Project #:	23/66-006	Sample Time:	2020

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	1844/93g.	11.2	721	6.90	-60	0.13	Clear
Static water level:*	33.80	1934/186g.	11.2	720	6.87	-45	0.17	"
Water depth:*	39	2019/279g	11.2	719	6.85	-37	0.14	"
Well volume: (gal)	93							
Purge method:	Submersible							
Sample method:	bailer							
Start time:	1759	Odor: none detected						
Stop time:	2019	Purge Appearance: Clear						
Duration: (minutes)	140	Sample Appearance: Clear						
Rate, gpm:	2	Comments:						
Volume, purged:	279 gal							
Duplicate collected?	M-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 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	**Date:**	5/24/06
Project #:	23/66-006	**Sample Time:**	2120

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	2042/37g	11.4	730	6.94	7	1.51	Clear
Static water level:*	33.83	2100/74g	11.4	733	6.91	15	1.39	"
Water depth:*	14.7	2119/111g	11.4	735	6.88	22	1.27	"
Well volume: (gal)	37							
Purge method:	Submersible							
Sample method:	bailer							
Start time:	2023	Odor: None detected						
Stop time:	2119	Purge Appearance: clear						
Duration: (minutes)	56	Sample Appearance: clear						
Rate, gpm:	2	Comments:						
Volume, purged:	111 gal	FB-1						
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 Prairie Ave Leasing
TECHNICIAN KSJ

WEATHER CONDITIONS

Date	Wind Direction	Wind Speed	Temperature F	Cloud Cover	Comments
5-24-06	SSE	5-15	70-80	50%	

Meter type and number	Date	Time	Temperature C	Standard Solution	pH Meter Reading	Cond. Cell Result	ORP Reading
YSI 556	5-24-06	0805	22	7/10	7.00/10.00	1000 umhos	235

231 +/- 10mV @ 25C

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

Cal.wb2

Chain of Custody

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

COC ____ of ____

Project Number: 23/66-006 DEP

Project Name: 21608

Project Manager: MCH

Project Contact: MCH

Sampled by: KSD

Laboratory: Legacy

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	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)	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	Remarks
1. W14	5/24/06	1200	✓			✓			3																		3	Partial list VOC's
2. B12		1230	✓		✓				3																		3	attached to table
3. B8		1325	✓			✓			3																		3	
4. B5		1430	✓			✓			3																		3	
5. W13		1705	✓			✓			3																		3	
6. B4		1735	✓			✓			3																		3	
7. PW17		2020	✓			✓			3																		3	
8. PW18		2120	✓			✓			3																		3	
9. M-1 (PW-17)			✓			✓		✓	3																		3	
10. FB-1			✓					✓	3																		3	
11. TB			✓					✓																				
12.																												

Number of Containers/Preservative — Water / Soil

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
[illegible]	Y	5/25/06		[illegible]	[illegible]	[illegible]
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

MSH QC

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

RECEIVED
JUN 07 2006
Barr Engineering Co.

88 Empire Drive
St. Paul, MN 55103
Tel: 651.642.1150
Fax: 651.642.1239

June 05, 2006

M-1 = PW17

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

Work Order Number: 0602194
REF: 23/66-006

Enclosed are the results of analyses for samples received by the laboratory on 05/25/06. If you have any questions concerning this report, please feel free to contact me.

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

Minnesota Certification # 027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Chris Bremer
Laboratory Director

Terri Olson
QA/QC Coordinator

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.

88 Empire Drive
St Paul, MN 55103
651.642.1150

Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	**Date Reported:** June 05, 2006

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W14	0602194-01	Groundwater	05/24/06 12:00	05/25/06 10:50
B12	0602194-02	Groundwater	05/24/06 12:30	05/25/06 10:50
B8	0602194-03	Groundwater	05/24/06 13:25	05/25/06 10:50
B5	0602194-04	Groundwater	05/24/06 14:30	05/25/06 10:50
W13	0602194-05	Groundwater	05/24/06 17:05	05/25/06 10:50
B4	0602194-06	Groundwater	05/24/06 17:35	05/25/06 10:50
PW17	0602194-07	Groundwater	05/24/06 20:20	05/25/06 10:50
PW18	0602194-08	Groundwater	05/24/06 21:20	05/25/06 10:50
M-1	0602194-09	Groundwater	05/24/06 00:00	05/25/06 10:50
FB-1	0602194-10	Groundwater	05/24/06 00:00	05/25/06 10:50
Trip Blank	0602194-11	Groundwater	05/22/06 00:00	05/25/06 10:50

Shipping container information

Default Cooler Temperature: 4.3

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

Temperature blank was present
Ambient: No

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

Case Narrative:

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.

88 Empire Drive
St Paul, MN 55103
651.642.1150

Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	Date Reported: June 05, 2006

VOC GCMS 8260B
Legend Technical Services, Inc

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W14 (0602194-01) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 12:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120*	*%*	"	"	"	"	
B12 (0602194-02) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 12:30										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	*101*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*103*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120*	*%*	"	"	"	"	
B8 (0602194-03) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 13:25										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	*102*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*108*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120*	*%*	"	"	"	"	

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.

88 Empire Drive
St Paul, MN 55103
651.642.1150

Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	**Date Reported:** June 05, 2006

VOC GCMS 8260B
Legend Technical Services, Inc

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5 (0602194-04) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 14:30										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	**1.6**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*104*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*104*			*80-120*	*%*	"	"	"	"	
W13 (0602194-05) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 17:05										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	EPA 8260B	
cis-1,2-Dichloroethene	**2.9**	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	**17**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*103*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120*	*%*	"	"	"	"	
B4 (0602194-06) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 17:35										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	**17**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120*	*%*	"	"	"	"	

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LEGEND
Technical Services, Inc.

88 Empire Drive
St Paul, MN 55103
651.642.1150

Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	Date Reported: June 05, 2006

VOC GCMS 8260B
Legend Technical Services, Inc

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PW17 (0602194-07) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 20:20										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	**3.3**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120 %*		"	"	"	"	
PW18 (0602194-08) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 21:20										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	**5.2**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*102*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*102*			*80-120 %*		"	"	"	"	
M-1 (0602194-09) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	**2.9**	1.0	0.28	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.31	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*102*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*107*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*105*			*80-120 %*		"	"	"	"	

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St Paul, MN 55103
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Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	**Date Reported:** June 05, 2006

VOC GCMS 8260B
Legend Technical Services, Inc

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0602194-10) Groundwater Received:05/25/06 10:50 Sampled:05/24/06 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	*102*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*104*			*80-120*	*%*	"	"	"	"	
Trip Blank (0602194-11) Groundwater Received:05/25/06 10:50 Sampled:05/22/06 00:00										
1,1-Dichloroethene	<1.0	1.0	0.20	ug/L	1	B6F0115	06/01/06	06/02/06	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	*101*			*80-120*	*%*	"	"	"	"	
Surrogate: Dibromofluoromethane	*107*			*80-120*	*%*	"	"	"	"	
Surrogate: Toluene-d8	*104*			*80-120*	*%*	"	"	"	"	

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88 Empire Drive
St Paul, MN 55103
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Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	Date Reported: June 05, 2006

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6F0115 - Volatiles										
Blank (B6F0115-BLK1)				Prepared: 06/01/06 Analyzed: 06/02/06						
1,1-Dichloroethene	<1.0	1.0	ug/L							
cis-1,2-Dichloroethene	<1.0	1.0	ug/L							
trans-1,2-Dichloroethene	<1.0	1.0	ug/L							
Trichloroethene	<1.0	1.0	ug/L							
Vinyl chloride	<1.0	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*62.3*		*ug/L*	*61.0*		102	*80-120*			
Surrogate: Dibromofluoromethane	*62.3*		*ug/L*	*61.0*		102	*80-120*			
Surrogate: Toluene-d8	*63.0*		*ug/L*	*61.0*		103	*80-120*			
LCS (B6F0115-BS1)				Prepared: 06/01/06 Analyzed: 06/02/06						
1,1-Dichloroethene	57.3	1.0	ug/L	50.0		115	80-125			
Benzene	51.7	1.0	ug/L	50.0		103	80-120			
cis-1,2-Dichloroethene	53.7	1.0	ug/L	50.0		107	80-120			
trans-1,2-Dichloroethene	55.1	1.0	ug/L	50.0		110	80-122			
Trichloroethene	50.8	1.0	ug/L	50.0		102	75-125			
Vinyl chloride	60.2	1.0	ug/L	50.0		120	70-125			
Surrogate: 4-Bromofluorobenzene	*68.3*		*ug/L*	*61.0*		112	*80-120*			
Surrogate: Dibromofluoromethane	*63.8*		*ug/L*	*61.0*		105	*80-120*			
Surrogate: Toluene-d8	*64.0*		*ug/L*	*61.0*		105	*80-120*			
Matrix Spike (B6F0115-MS1)		**Source: 0602194-01**		Prepared: 06/01/06 Analyzed: 06/02/06						
1,1-Dichloroethene	57.8	1.0	ug/L	50.0	<1.0	116	80-125			
Benzene	51.9	1.0	ug/L	50.0	<1.0	104	80-120			
cis-1,2-Dichloroethene	53.4	1.0	ug/L	50.0	<1.0	107	80-120			
trans-1,2-Dichloroethene	55.6	1.0	ug/L	50.0	<1.0	111	80-124			
Trichloroethene	51.3	1.0	ug/L	50.0	<1.0	103	80-120			
Vinyl chloride	60.4	1.0	ug/L	50.0	<1.0	121	70-130			

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Technical Services, Inc.

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St Paul, MN 55103
651.642.1150

Bar Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	**Date Reported:** June 05, 2006

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6F0115 - Volatiles										
Matrix Spike (B6F0115-MS1)		**Source: 0602194-01**		Prepared: 06/01/06		Analyzed: 06/02/06				
Surrogate: 4-Bromofluorobenzene	*68.2*		*ug/L*	*61.0*		112	*80-120*			
Surrogate: Dibromofluoromethane	*63.5*		*ug/L*	*61.0*		104	*80-120*			
Surrogate: Toluene-d8	*64.2*		*ug/L*	*61.0*		105	*80-120*			
Matrix Spike Dup (B6F0115-MSD1)		**Source: 0602194-01**		Prepared: 06/01/06		Analyzed: 06/02/06				
1,1-Dichloroethene	57.8	1.0	ug/L	50.0	<1.0	116	80-125	0.00	20	
Benzene	51.2	1.0	ug/L	50.0	<1.0	102	80-120	1.36	20	
cis-1,2-Dichloroethene	53.3	1.0	ug/L	50.0	<1.0	107	80-120	0.187	20	
trans-1,2-Dichloroethene	56.0	1.0	ug/L	50.0	<1.0	112	80-124	0.717	20	
Trichloroethene	51.0	1.0	ug/L	50.0	<1.0	102	80-120	0.587	20	
Vinyl chloride	61.8	1.0	ug/L	50.0	<1.0	124	70-130	2.29	20	
Surrogate: 4-Bromofluorobenzene	*67.5*		*ug/L*	*61.0*		111	*80-120*			
Surrogate: Dibromofluoromethane	*64.1*		*ug/L*	*61.0*		105	*80-120*			
Surrogate: Toluene-d8	*64.6*		*ug/L*	*61.0*		106	*80-120*			

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Barr Engineering Co. 4700 W 77th St Minneapolis MN, 55435	Project: 23/66-006 Project Number: 23/66-006 DEP Project Manager: Ms. Marta Nelson	**Date Reported:** June 05, 2006

Notes and Definitions

<	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.

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#0602194

BARR

Chain of Custody

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

COC _____ of _____

Project Number: 23/66-006DEP

Project Name: № 21698

Project Manager: MSH

Project Contact: MSH

Sampled by: KSJ

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	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)	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	Remarks
1.	W14	5/24/06	1200	✓			✓			3																		3	Partial list VOC's
2.	B12		1230	✓		✓				3																		3	attached table
3.	B8		1325	✓			✓			3																		3	
4.	B5		1430	✓			✓			3																		3	
5.	W13		1705	✓			✓			3																		3	
6.	B4		1735	✓			✓			3																		3	
7.	PW17		2020	✓			✓			3																		3	
8.	PW18		2120	✓			✓			3																		3	
9.	M-1			✓			✓		✓	3																		3	
10.	FB-1			✓					✓	3																		3	
11.	TB			✓					✓																				
12.																													

Number of Containers/Preservative — Water / Soil

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
Jim Shannessy	(Y) N	5/25/06		Victor Valcarcel/LTSI	5-25-06	10:50
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

on ice 4.3°C

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

Table 2
Monitoring Parameters and Analytical Methods

Partial List Volatile Organic Compounds SW846 Method 8260	
Parameter	**Laboratory Reporting Limit (ug/L)**
Vinyl chloride	1.0
1,1-Dichloroethylene	1.0
cis-1,2-Dichloroethylene	1.0
trans-1,2-Dichloroethylene	1.0
1,1,2-Trichloroethylene (TCE)	1.0

Full-list Volatile Organic Compounds SW846 Method 8260			
Parameter	**Laboratory Reporting Limit (ug/L)**	**Parameter**	**Laboratory Reporting Limit (ug/L)**
Chloromethane	1.0	Hexachlorobutadiene	5.0
Bromomethane	10	Methyl tert-butyl ether	1.0
Dichlorodifluoromethane	5.0	Benzene	1.0
Vinyl chloride	1.0	Toluene	1.0
Chloroethane	1.0	Chlorobenzene	1.0
1,1-Dichloroethylene	1.0	Ethyl benzene	1.0
Trichlorofluoromethane	1.0	p-Xylene/m-Xylene	2.0
Methylene chloride	10	o-Xylene/Styrene	2.0
trans-1,2-Dichloroethylene	1.0	Cumene	1.0
1,1-Dichloroethane	1.0	Bromobenzene	1.0
2,2-Dichloropropane	5.0	n-Propylbenzene	1.0
cis-1,2-Dichloroethylene	1.0	2-Chlorotoluene	1.0
Bromochloromethane	1.0	4-Chlorotoluene	1.0
Chloroform	1.0	1,3,5-Trimethylbenzene	1.0
Dibromomethane	5.0	tert-Butyl benzene	1.0
1,1,1-Trichloroethane	1.0	1,2,4-Trimethylbenzene	1.0
Carbon tetrachloride	1.0	1,3-Dichlorobenzene	1.0
1,2-Dichloroethane	1.0	sec-Butylbenzene	1.0
1,1,2-Trichloroethylene	1.0	1,4-Dichlorobenzene	1.0
1,1-Dichloropropene	1.0	p-Cymene	1.0
1,2-Dichloropropane	1.0	1,2-Dichlorobenzene	1.0
Bromodichloromethane	1.0	n-Butylbenzene	1.0
trans-1,3-Dichloro-1-propene	1.0	1,2,4-Trichlorobenzene	5.0
cis-1 3-Dichloro-1-propene	1.0	Naphthalene	5.0
1,1,2-Trichloroethane	1.0	1,2,3-Trichlorobenzene	5.0
1,3-Dichloropropane	1.0	Acetone	20
Tetrachloroethylene	1.0	Allyl chloride	5.0