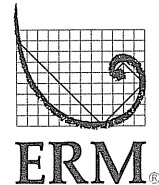


30 October 2006

Mr. Michael Hinton, P.E.
New York State Department of Environmental Conservation
Division of Regulatory Affairs
270 Michigan Avenue
Buffalo, New York 14203-2999



RE: April and July Quarterly Ground Water Sampling
Greif Bros. Facility - Tonawanda, New York
NYSDEC VCP Number V00334-9
ERM Project Number 0019800

Dear Mr. Hinton:

Environmental Resources Management (ERM) collected ground water samples at the Greif Bros. Corporation Facility located at 2122 Colvin Boulevard in the Town of Tonawanda, Erie County, New York (the Site) as part of the New York State Department of Environmental Conservation (NYSDEC)-approved quarterly ground water monitoring program for the Site. ERM followed sampling protocol outlined in the Interim Remedial Measures (IRM) Work Plan previously approved by NYSDEC and the NYSDEC-approved modifications outlined in correspondence from ERM to NYSDEC dated 31 January 2006.

This report presents data and results for two quarterly ground water sampling events: the first quarterly event conducted on 17 and 18 April 2006 and the second quarterly event conducted on 10 and 11 July 2006. Subsequent quarterly ground water monitoring reports will be submitted after each event.

Ground water was collected from the following monitoring wells:

Shallow Ground Water Zone

- MW-12;
- MW-13;
- MW-14;
- MW-21-S;
- MW-24; and
- MW-25.

Intermediate Ground Water Zone

- MW-18;

- MW-21-I; and
- MW-22.

Shallow monitoring well MW-23 and intermediate monitoring well MW-20 were not sampled due to the presence of light, non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL), respectively.

Each of the monitoring wells had a minimum of three well volumes of ground water purged from the well or were purged until the monitoring wells were dry. In situ ground water geochemical parameters were measured with a calibrated YSI Model 650 MDS meter in the field prior to purging and after each well volume were removed. Turbidity was measured in the field at the same frequency with a Lamotte Model 2020 E/I turbidity meter. Each of the monitoring wells were given time to recover to facilitate the collection of representative ground water samples. Samples were collected using dedicated polyethylene bailers. Ground water samples were collected and handled according to procedures outlined in the NYSDEC-approved Quality Assurance Project Plan (QAPP; ERM, 2000) and were transported under proper chain of custody to Severn Trent Laboratories located in Amherst, New York (STL-Buffalo). STL-Buffalo is a New York State Department of Health (NYSDOH)-approved environmental laboratory.

STL-Buffalo analyzed ground water samples for Site-specific volatile organic compounds (VOCs) of potential concern identified in Table 6-5 of the Data Gap Investigation (DGI) Report (ERM, 2003) by United States Environmental Protection Agency (USEPA) Method 8260. Ground water samples were also analyzed for the following parameters useful in the evaluation of natural attenuation processes:

- common degradation products not listed in USEPA Method 8260 (methane, ethane, and ethene);
- common electron acceptors (dissolved oxygen, ferric iron, sulfate, nitrate);
- common electron donors (ferrous iron, sulfide, ammonia);
- alkalinity (bicarbonate, carbonate, hydroxide);
- free carbon dioxide (nomographic determination);
- dissolved organic carbon;
- total dissolved solids; and
- hardness.

Dissolved oxygen (DO), oxidation reduction potential (ORP), conductivity, temperature, and pH were measured in the field with a calibrated YSI 650 MDS meter. Ferrous iron was measured in the field using a Hach Model IR-18C (1,10-phenanthroline) iron reagent test kit method or was determined at the project laboratory by an approved laboratory method.

Estimated ground water flow direction, laboratory analytical results, and evaluation of natural attenuation processes are discussed below by ground water zone (i.e., shallow or intermediate) due to the existence of distinct hydrogeologic units at the Site as described in the Remedial Investigation Report (ERM, 2001).

SHALLOW GROUND WATER

April 2006 Sampling Event

Ground water level measurements and other data were obtained from existing monitoring wells, recovery wells, and vapor monitoring points. Field data and sampling information for the April 2006 sampling event were recorded on ERM ground water sampling records (Attachment A). Table 1 (Attachment B) presents shallow ground water elevation data. Figure 1 (Attachment C) presents a shallow ground water contour map for the April 2006 sampling event. The estimated ground water flow direction at the Site during the referenced sampling event was generally towards the north. However, a cone of depression is evident in the Varnish Pit Area due to ongoing DNAPL Recovery IRM operations. Shallow ground water contours around the Varnish Pit demonstrate the operation of the DNAPL recovery system is establishing a significant hydraulic influence in the vicinity of the Varnish Pit.

A copy of the laboratory analytical report for the April 2006 ground water sampling event is presented in Attachment D. Laboratory analytical results for the April 2006 sampling event are summarized in Table 2 (Attachment B). Review of Table 2 indicates that a total of fifteen VOCs were detected in shallow ground water at the Site. Of these, 10 VOCs were detected at non-estimated concentration above ambient ground water quality standards or guidance values (NYSDEC, 1998). These results are generally consistent with previous ground water sampling events. Specific VOCs detected at non-estimated concentrations above applicable standards or guidance values include:

- benzene;
- 1,1- dichloroethane (DCA);

- 1,1- dichloroethene (DCE);
- cis-1,2-DCE;
- trans-1,2-DCE;
- tetrachloroethene (PCE);
- toluene;
- 1,1,1-trichloroethane (TCA);
- trichloroethene (TCE); and
- vinyl chloride.

DNAPL was observed in the following shallow wells during the April 2006 quarterly sampling event:

- RW-1;
- RW-2; and
- RW-4;

LNAPL was observed in the following shallow well during the April 2006 quarterly sampling event:

- MW-23.

July 2006 Sampling Event

Shallow ground water level measurements were obtained from existing monitoring wells, recovery wells, and vapor monitoring points. Field data and sampling information from the July 2006 sampling event were recorded on ERM ground water sampling records (Attachment E). Table 1 (Attachment B) presents shallow ground water elevation data. Figure 2 (Attachment C) presents a shallow ground water contour map for the July 2006 sampling event. The estimated ground water flow direction at the Site during the referenced sampling event was generally towards the north. However, a cone of depression is evident in the Varnish Pit Area due to ongoing DNAPL Recovery IRM operations. Shallow ground water contours around the Varnish Pit demonstrate the operation of the DNAPL recovery system is establishing a significant hydraulic influence in the vicinity of the Varnish Pit.

A copy of the laboratory analytical report for the July 2006 sampling event is presented in Attachment F. Laboratory analytical results for the July 2006 sampling event are summarized in Table 3 (Attachment B). Review of Table 3 indicates that a total of 14 VOCs were detected in shallow ground water at the Site. Of these, eight VOCs were detected at non-estimated

concentration above ambient ground water quality standards or guidance values (NYSDEC, 1998). These results are generally consistent with previous ground water sampling events. Specific VOCs detected at non-estimated concentrations above applicable standards or guidance values include:

- benzene;
- 1,1- DCA;
- 1,1- DCE;
- cis-1,2-DCE;
- trans-1,2-DCE;
- 1,1,1-TCA;
- TCE; and
- vinyl chloride.

DNAPL was observed in the following shallow wells during the July 2006 quarterly sampling event:

- RW-1;
- RW-2;
- RW-4; and
- VMP-2.

LNAPL was observed in shallow monitoring well MW-23 during the July 2006 quarterly sampling event.

INTERMEDIATE GROUND WATER

April 2006 Sampling Event

Intermediate ground water level measurements were obtained from existing monitoring wells. Intermediate ground water elevation data are presented in Table 1 (Attachment B). Figure 3 (Attachment C) presents an intermediate ground water contour map for the April 2006 sampling event. Review of ground water level data indicates that the estimated lateral direction of intermediate ground water flow during the April 2006 ground water sampling event is generally towards north-northeast. This flow direction is generally consistent with previous sampling events.

A copy of the laboratory analytical report for the April 2006 ground water sampling event is presented in Attachment D. Laboratory analytical results for the April 2006 sampling event are summarized in Table 2

(Attachment B). Review of Table 2 indicates that a total of nine VOCs were detected in intermediate ground water at the Site during the April 2006 sampling event. Of these, six VOCs were detected at concentrations above ambient ground water quality standards and guidance values (NYSDEC, 1998). These results are generally consistent with previous ground water sampling events. Specific VOCs detected at non-estimated concentrations above applicable standards or guidance values include:

- 1,1-DCA;
- 1,1-DCE;
- cis-1,2-DCE;
- 1,1,1-TCA;
- TCE; and
- vinyl chloride.

DNAPL was observed in intermediate recovery well MW-20 during the April 2006 quarterly sampling event. LNAPL was not observed in any intermediate wells.

July 2006 Sampling Event

Intermediate ground water level measurements were obtained from existing monitoring wells and an intermediate recovery well (MW-20). Intermediate ground water elevation data are presented in Table 3 (Attachment B). Figure 4 (Attachment C) presents an intermediate ground water contour map for the July 2006 sampling event. Review of ground water level data indicates that the estimated lateral direction of intermediate ground water flow during the July 2006 ground water sampling event is generally towards the north-northeast. This flow direction is generally consistent with previous sampling events. An area of pumping influence is evident around recovery well MW-20 due to the initiation of a pumping on MW-20 as part of the on going DNAPL Recovery IRM effort.

A copy of the laboratory analytical report for the July 2006 sampling event is presented in Attachment F. Laboratory analytical results for the July 2006 sampling event are summarized in Table 3 (Attachment B). Review of Table 3 indicates that a total of 11 VOCs were detected in intermediate ground water at the Site during the July 2006 sampling event. Of these, six VOCs were detected at concentrations above ambient ground water quality standards and guidance values (NYSDEC, 1998). These results are generally consistent with previous ground water sampling events. Specific

VOCs detected at non-estimated concentrations above applicable standards or guidance values include:

- 1,1-DCA;
- 1,1-DCE;
- cis-1,2-DCE;
- 1,1,1-TCA;
- TCE; and
- vinyl chloride.

DNAPL was observed in intermediate recovery well MW-20 during the July 2006 quarterly sampling event. LNAPL was not observed in any intermediate wells.

EVALUATION OF NATURAL ATTENUATION DATA

Field and laboratory analytical data relevant to the evaluation of natural attenuation processes in Site ground water for the April 2006 and July 2006 sampling events are summarized in Table 4 and Table 5, respectively (Attachment B). Ground water sampling results from both the April 2006 and July 2006 sampling events show evidence of continued natural attenuation of the chlorinated VOCs through reductive dechlorination. At MW-18 in the intermediate zone, cis-1,2-DCE and 1,1-DCA, which are the initial daughter products of the reductive dechlorination of TCE and 1,1,1-TCA, respectively, are the primary VOCs. Vinyl chloride and chloroethane, the final chlorinated products of TCE and 1,1,1-TCA, are also present at MW-18. Additionally, 1,1-DCE, the abiotic degradation product of 1,1,1-TCA, is also present at MW-18. Similar patterns are observed in the shallow zone with cis-1,2-DCE and 1,1-DCA, which are the major VOCs present in MW-12, MW-24 and MW-25. Significant amounts of these compounds are also present in MW-13 and MW-14 relative to the parent compounds TCE and 1,1,1-TCA.

These geochemical data indicate reducing conditions conducive to reductive dechlorination are generally present in ground water in both the shallow and intermediate zones. In April, ORP values ranged between 55 and -70 mV in the shallow zone and -116 and -166 mV in the intermediate zone. ORP values were slightly higher in July and ranged between 193 and -26 mV in the shallow zone and -70 and -147mV in the intermediate zone. DO concentrations are higher than would be expected based on the ORP values and ranged between 2.01 and 4.33 mg/L in April and 4.44 and 6.72 mg/L in July. These DO results are anomalous and may be suggestive of

potential calibration errors with the field meter. The other major electron acceptor, sulfate, continues to range from approximately 68 and 1390 mg/L in the shallow zone and 112 and 517 mg/L in the intermediate zone, with little change from the previous sampling event (with the exception of MW-25). In July 2006, the sulfate concentration at MW-25 exhibited a significant decrease in concentration (approximately 25-fold) as compared to the two previous events. This result appears to be anomalous. Low concentrations of ferrous iron, the product of the use of ferric ion as an electron acceptor, continue to be detected intermittently in the shallow ground water zone and also at intermediate well MW-22.

The next quarterly sampling event occurred in mid-October 2006. ERM will submit an updated quarterly ground water monitoring report to NYSDEC after laboratory analytical data are received and reviewed.

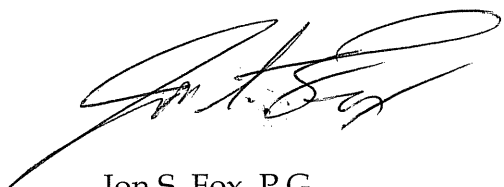
Thank you for your assistance. Please contact the undersigned at 315-445-2554 if you have any questions or comments regarding this report.

Sincerely,



FOR

Robert Sents
Project Geologist



Jon S. Fox, P.G.
Senior Project Manager

- Attachment A - April 2006 Ground Water Sampling Records
- Attachment B - Tables
- Attachment C - Figures
- Attachment D - April 2006 Laboratory Analytical Report
- Attachment E - July 2006 Ground Water Sampling Records
- Attachment F - July 2006 Laboratory Analytical Report

Cc: Mr. Matt Forcucci (NYSDOH)
Mr. Pete Gruene (Palmetto Env. Mgmt. Solutions)
Mr. Edward Hinchey, P.G. (ERM)
Mr. Robert Powell, C.S.P., A.R.M. (Sonoco Products Co.)
Mr. Joseph Ryan, Esq. (NYSDEC)
Mr. Gregory Sutton, P.E. (NYSDEC)
Mr. A. Joseph White (NYSDEC)
Mr. Patrick Wolfe (Greif Bros. Corp. – two copies)

REFERENCES CITED

- ERM, 2000. Quality Assurance Project Plan – Appendix C of Work Plan for Remedial Investigation, 2122 Colvin Boulevard, Tonawanda, New York. ERM Project Number D6713.00.01, June 2000.
- ERM, 2001. Voluntary Remedial Investigation Report, Greif Bros. Site, 2122 Colvin Boulevard, Town of Tonawanda, Erie County, New York. ERM Project Number D6714.00, 28 November 2001.
- ERM, 2003. Data Gap Investigation Report, Greif Bros. Site, 2122 Colvin Boulevard, Town of Tonawanda, Erie County, New York. ERM Project Number 001242, December 2003.
- NYSDEC, 1998. Ambient Water Quality Standards, Guidance Values, and Ground Water Effluent Limitations. NYSDEC Division of Water Technical and Operations Guidance Series Memorandum Number 1.1.1, June 1998 (latest amendment April 2000).

ATTACHMENT A
APRIL 2006 GROUND WATER SAMPLING RECORDS

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID : Greif- MW-12 (04/06)

WELL ID : _____

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 15.96 Time: _____
 Static water level (from top of casing) 6.66 Time: _____
 Water level after purging (from top of casing) 10. Time: _____
 Water level before sampling (from top of casing) 10.95 Time: _____

Purging Method:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

Well Volume Calculation:

1 volume 3 volumes
 2 in. well: 9.3 ft. of water x 0.16 = 1.5 gal. x 3 = 4.6 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:
5 gal.

>3 volumes: yes no purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.50</u>	<u>1.83</u>	<u>6.6</u>	<u>4.22</u>	<u>18.90</u>	<u>0.5</u>	<u>0.1</u>	<u>1.2</u>	<u>111</u>
1 Volume	<u>6.67</u>	<u>1.87</u>	<u>253.0</u>	<u>3.65</u>	<u>18.48</u>	<u>0.9</u>	<u>0.1</u>	<u>1.2</u>	<u>103</u>
2 Volumes	<u>6.76</u>	<u>1.88</u>	<u>301.0</u>	<u>3.46</u>	<u>18.12</u>	<u>0.6</u>	<u>0.1</u>	<u>1.2</u>	<u>87</u>
3 Volumes	<u>7.98</u>	<u>1.86</u>	<u>249.0</u>	<u>3.11</u>	<u>17.80</u>	<u>0.7</u>	<u>0.1</u>	<u>1.2</u>	<u>-53</u>

Sampling

Time of Sample Collection: 15:50 on 4/18/06

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 503.1 Other _____
 Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,
TDS, Hardness, BFA

Observations

Weather/Temperature: 65°F, clear, breezy

Sample Description: clear, no odor

Free Product? yes no describe _____
 Sheen? yes no describe _____
 Odor? yes no describe _____

Comments:

Ferrous Iron: 0.0 mg/l Duplicate collected

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: _____

SAMPLE ID : Greif-MW-13 (04/06)

WELL ID : MW-13

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 16.38 Time: _____
 Static water level (from top of casing) 5.41 Time: _____
 Water level after purging (from top of casing) Time: _____
 Water level before sampling (from top of casing) 10.15 Time: _____

Purging Method:

Well Volume Calculation:

- Airlift
 Bailer
 Submersible
 Low-Flow Pump
 Peristaltic Pump
 Ded. Pump

1 volume 3 volumes
 2 in. well: 10.97 ft. of water x 0.16 = 1.76 gal. x 3 = 5.27 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed: 6 gal. >3 volumes: yes no _____ purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.29</u>	<u>3.10</u>	<u>53.8</u>	<u>1.60</u>	<u>17.57</u>	<u>0.9</u>	<u>0.2</u>	<u>2.0</u>	<u>-46</u>
1 Volume	<u>7.37</u>	<u>3.21</u>	<u>149.0</u>	<u>3.64</u>	<u>17.54</u>	<u>0.7</u>	<u>0.2</u>	<u>2.1</u>	<u>-54</u>
2 Volumes	<u>7.58</u>	<u>3.23</u>	<u>244.0</u>	<u>2.81</u>	<u>17.43</u>	<u>0.8</u>	<u>0.2</u>	<u>2.1</u>	<u>-65</u>
3 Volumes	<u>7.55</u>	<u>3.15</u>	<u>346.0</u>	<u>2.16</u>	<u>17.26</u>	<u>0.2</u>	<u>0.2</u>	<u>2.0</u>	<u>-62</u>

Sampling

Time of Sample Collection: 16:15

Collection Method:

Analyses:

Analytical Method:

- Disposable bailer VOCs - 8260 503.1 Other _____
 Teflon bailer _____ SVOCs _____
 Dedicated pump _____ Metals _____
 Submersible Pump _____ PCB/Pest _____
 Low-Flow Sampling _____ MNA _____
 Other: _____ Other Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity, TDS, Hardness, BFA

Observations

Weather/Temperature: 65°F, clear, breezy

Sample Description: clear, no odor

Free Product? yes _____ no describe _____
 Sheen? yes _____ no describe _____
 Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID : Greif- MW-14 (04/06)

WELL ID : MW-14

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 16.63 Time: _____

Static water level (from top of casing) 10.06 Time: _____

Water level after purging (from top of casing) _____ Time: _____

Water level before sampling (from top of casing) 14.85 (RS) Time: _____

Purging Method:

Well Volume Calculation:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

1 volume 3 volumes
 2 in. well: 6.57 ft. of water x 0.16 = 1.05 gal. x 3 = 3.15 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

3.5 gal.

>3 volumes: yes no _____ purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	7.12	0.926	20.9	2.15	18.58	0.6	0.0	0.59	27
1 Volume	7.27	0.939	210.0	3.45	18.58	0.4	0.0	0.60	20
2 Volumes	7.97	0.929	373.0	2.07	18.49	0.6	0.0	0.59	-59
3 Volumes	7.97	0.925	509.0	2.03	18.44	0.7	0.0	0.59	-70

Sampling

Time of Sample Collection: 15:30 on 4/18/06

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 _____ 503.1 _____ Other _____
 Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,
TDS, Hardness, BFA

Observations

Weather/Temperature: 65°F, clear, breezy

Sample Description: clear, no odor

- Free Product? yes _____ no describe _____
 Sheen? yes _____ no describe _____
 Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID : Greif- MW-18 (04/06)

WELL ID : _____

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 28.35 Time: _____
 Static water level (from top of casing) 8.68 Time: _____
 Water level after purging (from top of casing) _____ Time: _____
 Water level before sampling (from top of casing) 8.72 Time: _____

Purging Method:

Well Volume Calculation:

_____ Airlift _____ Low-Flow Pump
 Bailer _____ Peristaltic Pump
 _____ Submersible _____ Ded. Pump

1 volume 3 volumes
 2 in. well: 19.67 ft. of water x 0.16 = 3.1 gal. x 3 = 9.3 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

7.0 gal. >3 volumes: yes _____ no purged dry? yes no _____

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>10.30</u>	<u>2.67</u>	<u>589</u>	<u>6.01</u>	<u>15.30</u>	<u>0.7</u>	<u>0.1</u>	<u>1.7</u>	<u>-99</u>
1 Volume	<u>8.20</u>	<u>1.84</u>	<u>252.6</u>	<u>3.47</u>	<u>15.19</u>	<u>0.5</u>	<u>0.1</u>	<u>1.2</u>	<u>-18</u>
2 Volumes	<u>9.25</u>	<u>1.88</u>	<u>+999.0</u>	<u>3.01</u>	<u>15.06</u>	<u>0.8</u>	<u>0.1</u>	<u>1.2</u>	<u>-116</u>
3 Volumes				<u>Dry</u>					

Sampling

Time of Sample Collection: 08:20 on 4/18/06

Collection Method:

Disposable bailer
 _____ Teflon bailer
 _____ Dedicated pump
 _____ Submersible Pump
 _____ Low-Flow Sampling
 _____ Other: _____

Analyses:

VOCs -
 _____ SVOCs
 _____ Metals
 _____ PCB/Pest
 _____ MNA
 Other

Analytical Method:

8260 503.1 Other _____
 Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,
TDS, Hardness, BFA

Observations

Weather/Temperature: 53°f, clear, calm

Sample Description: slightly cloudy (whf)

Free Product? yes _____ no describe _____

Sheen? yes _____ no describe _____

Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.0 mg/l ms/msd collected

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID: Greif-MW-215 (04/06)

WELL ID: MW-215

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 16.38 Time: _____
 Static water level (from top of casing) 13.40 Time: _____
 Water level after purging (from top of casing) _____ Time: _____
 Water level before sampling (from top of casing) 14.70 Time: _____

Purging Method:

Well Volume Calculation:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

1 volume 3 volumes
 2 in. well: 2.98 ft. of water x 0.16 = 0.48 gal. x 3 = 1.43 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

1.1 gal. >3 volumes: yes _____ no purged dry? yes no _____

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.99</u>	<u>0.684</u>	<u>46.7</u>	<u>5.77</u>	<u>18.61</u>	<u>0.5</u>	<u>0.0</u>	<u>0.44</u>	<u>77</u>
1 Volume	<u>7.03</u>	<u>0.677</u>	<u>188.0</u>	<u>3.85</u>	<u>18.73</u>	<u>0.4</u>	<u>0.0</u>	<u>0.43</u>	<u>71</u>
2 Volumes	<u>7.16</u>	<u>0.671</u>	<u>317.0</u>	<u>3.21</u>	<u>18.73</u>	<u>0.1</u>	<u>0.0</u>	<u>0.43</u>	<u>55</u>
3 Volumes				<u>Dry</u>					

Sampling

Time of Sample Collection: 14:20 on 4/18/06

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 _____ 503.1 _____ Other _____
Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity, TDS, Hardness, BFA

Observations

Weather/Temperature: 65f, clear, breezy

Sample Description: clear, no odor

Free Product? yes _____ no describe _____
 Sheen? yes _____ no describe _____
 Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID: Greif-MW-21Z (04/06)

WELL ID: MW-21Z

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 35.54 Time: _____

Static water level (from top of casing) 13.16 Time: _____

Water level after purging (from top of casing) _____ Time: _____

Water level before sampling (from top of casing) 14.70 (R) Time: _____

Purging Method:

Well Volume Calculation:

- Airlift
 Bailer
 Submersible

- Low-Flow Pump
 Peristaltic Pump
 Ded. Pump

- 1 volume 3 volumes
3.51 gal. x 3 = 10.6 gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.

Volume of water removed:
8 gal.

>3 volumes: yes _____ no purged dry? yes no _____

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.24</u>	<u>0.684</u>	<u>10.0</u>	<u>3.90</u>	<u>18.75</u>	<u>0.6</u>	<u>0.0</u>	<u>0.44</u>	<u>54</u>
1 Volume	<u>7.44</u>	<u>0.673</u>	<u>999.0</u>	<u>3.37</u>	<u>18.13</u>	<u>0.5</u>	<u>0.0</u>	<u>0.43</u>	<u>36</u>
2 Volumes	<u>8.68</u>	<u>0.706</u>	<u>999.0</u>	<u>4.68</u>	<u>17.75</u>	<u>0.6</u>	<u>0.0</u>	<u>0.45</u>	<u>-113</u>
3 Volumes				<u>Dry</u>					

Sampling

Time of Sample Collection: 1440 on 4/18/06

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

- 8260 503.1 Other

 Other Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,
TDS, Hardness, BFA

Observations

Weather/Temperature: 65°F, clear, breezy

Sample Description: clear, no odor

Free Product? yes _____ no describe _____

Sheen? yes _____ no describe _____

Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID: Greif- MW-22 (04/06)

WELL ID: MW-22

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 33.81 Time: _____
 Static water level (from top of casing) 14.17 Time: _____
 Water level after purging (from top of casing) _____ Time: _____
 Water level before sampling (from top of casing) 14.83 Time: _____

Purging Method:

Well Volume Calculation:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

1 volume 3 volumes
 2 in. well: 19.66 ft. of water x 0.16 = 3.14 gal. x 3 = 9.43 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:
10 gal.

>3 volumes: yes no _____ purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.31</u>	<u>1.77</u>	<u>16.4</u>	<u>4.33</u>	<u>17.52</u>	<u>0.5</u>	<u>0.1</u>	<u>1.1</u>	<u>20</u>
1 Volume	<u>8.60</u>	<u>1.80</u>	<u>679.0</u>	<u>2.73</u>	<u>16.41</u>	<u>0.7</u>	<u>0.1</u>	<u>1.2</u>	<u>-125</u>
2 Volumes	<u>8.32</u>	<u>1.69</u>	<u>677</u>	<u>2.14</u>	<u>16.27</u>	<u>0.6</u>	<u>0.1</u>	<u>1.1</u>	<u>-113</u>
3 Volumes	<u>8.32</u>	<u>1.67</u>	<u>403.0</u>	<u>2.01</u>	<u>16.25</u>	<u>0.8</u>	<u>0.1</u>	<u>1.1</u>	<u>-116</u>

Sampling

Time of Sample Collection: 15:10 on 4/18/06

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 _____ 503.1 _____ Other _____
Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity, TDS, Hardness, BFA

Observations

Weather/Temperature: 65°F, clear, windy

Sample Description: clear, no odor

Free Product? yes _____ no describe _____
 Sheen? yes _____ no describe _____
 Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 1.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID: Greif- MW-24 (04/06)

WELL ID: _____

Time Onsite: _____ Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 14.4 Time: _____

Static water level (from top of casing) 2.72 Time: _____

Water level after purging (from top of casing) 2.84 Time: _____

Water level before sampling (from top of casing) 2.85 Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

_____ Airlift _____ Low-Flow Pump 2 in. well: 11.68 ft. of water x 0.16 = 1.9 gal. x 3 = 5.6 gal.

Bailer _____ Peristaltic Pump 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.

_____ Submersible _____ Ded. Pump 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.

6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

6 gal.

>3 volumes: yes no _____ purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>8.96</u>	<u>1.63</u>	<u>78.3</u>	<u>11.29</u>	<u>10.77</u>	<u>-0.1</u>	<u>0.1</u>	<u>1.6</u>	<u>-28</u>
1 Volume	<u>7.76</u>	<u>0.000</u>	<u>580.0</u>	<u>9.17</u>	<u>11.14</u>	<u>-0.1</u>	<u>0.0</u>	<u>1.0</u>	<u>52</u>
2 Volumes	<u>7.51</u>	<u>3.98</u>	<u>397.0</u>	<u>5.52</u>	<u>9.86</u>	<u>0.4</u>	<u>0.2</u>	<u>2.5</u>	<u>-5</u>
3 Volumes	<u>7.36</u>	<u>3.83</u>	<u>158</u>	<u>4.69</u>	<u>9.93</u>	<u>0.2</u>	<u>0.2</u>	<u>2.4</u>	<u>-1</u>

Sampling

Time of Sample Collection: 09:50 on 4/18/06

Collection Method:

- Disposable bailer
- _____ Teflon bailer
- _____ Dedicated pump
- _____ Submersible Pump
- _____ Low-Flow Sampling
- _____ Other: _____

Analyses:

- VOCs -
- _____ SVOCs
- _____ Metals
- _____ PCB/Pest
- _____ MNA
- Other

Analytical Method:

8260 503.1 Other _____
 Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,
TDS, Hardness, BFA

Observations

Weather/Temperature: 55°F, clear, breezy

Sample Description: slightly silty, no odor

- Free Product? yes _____ no describe _____
- Sheen? yes _____ no describe _____
- Odor? yes _____ no describe _____

Comments:

Ferrous Iron: 0.6 mg/l

GROUND WATER SAMPLING RECORD

SITE Greif Bros. Facility- Tonawanda, New York

DATE 17-18 April 06

PROJECT NUMBER: 0019800

SAMPLE ID: Greif- MW-25 (04/06)

WELL ID: _____

Time Onsite: _____

Time Offsite: _____

SAMPLERS R. Sents, C. Wunderlich, M. Otz

Depth of well (from top of casing) 14.55

Time: _____

Static water level (from top of casing) 4.42

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing) 4.43

Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

_____ Airlift _____ Low-Flow Pump

2 in. well: 10.13 ft. of water x 0.16 =

1.62 gal. x 3 = 4.9 gal.

X Bailer _____ Peristaltic Pump

3 in. well: _____ ft. of water x 0.36 =

_____ gal. x 3 = _____ gal.

_____ Submersible _____ Ded. Pump

4 in. well: _____ ft. of water x 0.65 =

_____ gal. x 3 = _____ gal.

6 in. well: _____ ft. of water x 1.47 =

_____ gal. x 3 = _____ gal.

Volume of water removed:

6 gal.

>3 volumes: yes X no _____ purged dry? yes _____ no X

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.82</u>	<u>3.85</u>	<u>50.9</u>	<u>4.56</u>	<u>9.36</u>	<u>0.0</u>	<u>0.2</u>	<u>2.5</u>	<u>45</u>
1 Volume	<u>6.54</u>	<u>4.07</u>	<u>499.0</u>	<u>3.00</u>	<u>9.27</u>	<u>0.0</u>	<u>0.2</u>	<u>2.6</u>	<u>71</u>
2 Volumes	<u>6.55</u>	<u>3.93</u>	<u>786.0</u>	<u>2.29</u>	<u>9.31</u>	<u>-0.1</u>	<u>0.2</u>	<u>2.5</u>	<u>70</u>
3 Volumes	<u>6.49</u>	<u>3.91</u>	<u>780.0</u>	<u>2.29</u>	<u>9.21</u>	<u>0.1</u>	<u>0.2</u>	<u>2.5</u>	<u>76</u>

Sampling

Time of Sample Collection: 10:20 on 4/18/06

Collection Method:

X Disposable bailer

_____ Teflon bailer

_____ Dedicated pump

_____ Submersible Pump

_____ Low-Flow Sampling

_____ Other: _____

Analyses:

X VOCs -

_____ SVOCs

_____ Metals

_____ PCB/Pest

_____ MNA

X Other

Analytical Method:

8260 503.1 Other _____

Ethene, Ethane, DOC, Sulfate, Sulfide, Nitrate, Alkalinity,

TDS, Hardness, BFA

Observations

Weather/Temperature: clear, 60°F, breezy

Sample Description: slightly silty, no odor

Free Product? yes _____ no X describe _____

Sheen? yes _____ no X describe _____

Odor? yes _____ no F describe _____

Comments:

Ferrous Iron: 0.0 mg/l

***ATTACHMENT B
TABLES***

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
QUARTERLY GROUND WATER MONITORING REPORT
GREIF BROS. FACILITY - TONAWANDA, NEW YORK
NYSDEC VCP NUMBER V00334-9
ERM PROJECT NUMBER 0019800

MONITORING WELL / VAPOR POINT DESIGNATION	GROUND WATER ZONE																
	MW-12 Shallow	MW-13 Shallow	MW-14 Shallow	MW-15 Shallow	MW-16 Shallow	MW-17 Shallow	MW-21-S Shallow	MW-19 Shallow	MW-24 Shallow	MW-25 Shallow	MW-23 Shallow	VMP-1 Shallow	VMP-2 Shallow	VMP-3 Shallow	VMP-4 Shallow	VMP-5 Shallow	VMP-6 Shallow
GROUND	587.19	587.15	587.22	585.82	586.3	586.77	587.3	583.92	585.6	586.67	587.15	587.26	587.92	583.65	587.27	587.17	587.25
TOP OF CASING	586.84	586.84	586.84	585.3	586.05	586.22	586.88	583.17	585.38	586.72	586.70	587.06	587.13	583.34	586.78	586.71	586.92
TOP OF SCREEN	580.88	580.46	580.21	581.15	581.47	581.76	580.5	575.59	580.98	582.17	582.00	582.06	582.13	578.34	581.78	581.71	582.25
BOTTOM OF WELL	570.88	570.46	570.21	571.15	571.47	571.76	570.5	565.59	570.98	572.17	572.00	577.06	577.14	573.34	576.78	571.71	577.25
WATER LEVEL DATA																	
	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
	12/4/1998																
	12/9/1998																
	9/20/1999																
	9/12/2001																
	12/9/2002																
	1/30/2006																
	4/17/2006																
	7/10/2006																

MONITORING WELL / VAPOR POINT DESIGNATION	GROUND WATER ZONE															
	RW-1 Shallow	RW-2 Shallow	RW-3 Shallow	RW-4 Shallow	RW-5 Shallow	MW-2 Int.	MW-3 Int.	MW-4 Int.	MW-5 Int.	MW-6 Int.	MW-7, MW-7A Int.	MW-1, MW-1A Int.	MW-18 Int.	MW-21-1 Int.	MW-22 Int.	MW-20 Int.
GROUND	587.11	587.13	583.69	587.10	587.13	NM	NM	NM	NM	584.7	585.52	NM	583.62	587.3	587.2	587.1
TOP OF CASING	586.80	586.78	583.19	586.85	586.77	583.85	586.41	585.19	585.19	584.42	585.43	586.52	582.71	586.35	586.77	586.31
TOP OF SCREEN	581.72	581.74	578.19	582.60	582.27	565.26	562.08	567.83	567.83	565.89	560.03	567.13	564.36	560.81	562.96	564.67
BOTTOM OF WELL	571.72	571.74	568.19	572.60	572.27	555.26	552.08	557.83	557.83	555.39	549.53	557.13	554.36	550.81	552.96	554.67
WATER LEVEL DATA																
	NI	NI	NI	NI	NI	563	569.17	569.87	569.87	NI	NI	570.88	NI	NI	NI	NI
	12/4/1998															
	12/9/1998															
	9/20/1999															
	9/12/2001															
	12/9/2002															
	1/30/2006															
	4/17/2006															
	7/10/2006															

NOTES:
- NM = not measured
- All ground water elevations are reported in feet above mean sea level based on survey data
- NI = well or vapor monitoring point not installed as of this date
- Int= Intermediate Ground Water Zone
NW= no water present in well

TABLE 2

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUND WATER
 QUARTERLY GROUND WATER MONITORING - APRIL 2006
 GREIF BROS. FACILITY - TONAWANDA, NEW YORK
 NYSDEC VCP NUMBER V00334-9
 ERM PROJECT NUMBER 0019800**

Sample Designation Ground Water Zone Date Sampled	MW-18 Int 4/18/2006	MW-21I Int 4/18/2006	MW-22 Int 4/18/2006	MW-12 Shallow 4/18/2006	MW-13 Shallow 4/18/2006	MW-14 Shallow 4/18/2006	MW-21S Shallow 4/18/2006	MW-24 Shallow 4/18/2006	MW-25 Shallow 4/18/2006	NYSDEC Standard
VOCs (µg/L)										
Acetone	---	---	---	---	---	---	---	---	---	50
Benzene	---	---	---	---	---	---	---	32	---	1
2-Butanone	---	---	---	---	---	---	---	---	---	5
Chloroethane	35 J	---	---	---	---	---	---	---	0.72 J	5
Chloroform	---	---	---	---	---	---	---	---	---	7
1,1-Dichloroethane	2,100	---	1.8	2,000	8,300	2,600	---	30	10	5
1,2-Dichloroethane	---	---	---	---	---	---	---	---	---	0.6
1,1-Dichloroethene	190	---	---	450	12,000	---	---	8.6	1.2	5
cis-1,2-Dichloroethene	360	---	0.78 J	2,200	9,800	530 J	---	3,300	18.0	5
trans-1,2-Dichloroethene	---	---	---	49	---	---	---	12	---	5
Ethylbenzene	23 J	---	---	---	---	---	---	2.8 J	---	5
Methylene chloride	---	---	---	---	---	---	---	2.9 J	---	5
4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	NA
Tetrachloroethene	---	---	---	---	---	---	---	8	---	5
Toluene	---	---	---	---	---	---	---	12	---	5
1,1,1-Trichloroethane	820	1.6	0.89 J	400	34,000	---	4.5	2.2 J	4.8	5
1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---	5
Trichloroethene	180	0.66 J	6.6	420	54,000	52,000	1.6	6,700	2.1	5
1,2,4-Trimethylbenzene	---	---	---	---	---	---	---	2.2 J	---	5
Vinyl chloride	100	---	---	140	---	---	---	49	0.66 J	2
Xylene (total)	74 J	---	---	---	---	---	---	8.1 J	---	5

NOTES:

- all analyte concentrations are reported in micrograms per liter (parts per billion) unless otherwise noted

--- = the compound was not detected at a concentration above the laboratory practical quantitation limit.

J = indicates an estimated value.

Highlighted cells represent concentrations above the applicable ground water standard or guidance value.

ENVIRONMENTAL RESOURCES MANAGEMENT

TABLE 3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUND WATER
QUARTERLY GROUND WATER MONITORING - JULY 2006
GREIF BROS. FACILITY - TONAWANDA, NEW YORK
NYSDEC VCP NUMBER V00334-9
ERM PROJECT NUMBER 0019800**

Sample Designation Ground Water Zone	MW-18 Int 7/11/2006	MW-21I Int 7/11/2006	MW-22 Int 7/11/2006	MW-12 Shallow 7/11/2006	MW-13 Shallow 7/11/2006	MW-14 Shallow 7/11/2006	MW-21S Shallow 7/11/2006	MW-24 Shallow 7/11/2006	MW-25 Shallow 7/11/2006	NYSDEC Standard
VOCs (µg/L)										
Acetone	---	---	---	---	---	---	---	---	---	50
Benzene	---	---	---	---	---	---	---	97	1.1	1
2-Butanone	---	---	---	---	---	---	---	---	---	5
Chloroethane	17 J	---	---	---	---	---	---	---	0.40 J	5
Chloroform	---	---	---	---	---	---	---	---	---	7
1,1-Dichloroethane	1,200	---	1.6	2,600	9,600	2,500	---	58 J	7.8	5
1,2-Dichloroethane	---	---	---	---	---	---	---	---	---	0.6
1,1-Dichloroethene	120	---	0.41 J	520	16,000	1,400	---	---	0.95 J	5
cis-1,2-Dichloroethene	240	---	---	3,200	10,000	---	---	5,600	18	5
trans-1,2-Dichloroethene	---	---	---	61	420 J	---	---	37 J	0.99 J	5
Ethylbenzene	14 J	---	---	---	---	---	---	---	---	5
Methylene chloride	15 J	---	---	54	510 J	470 J	---	48 J	---	5
4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	NA
Tetrachloroethene	---	---	---	---	---	---	---	---	---	5
Toluene	---	---	---	---	---	---	---	36 J	---	5
1,1,1-Trichloroethane	160	---	---	660	41,000	---	3	---	9.5	5
1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---	5
Trichloroethene	110	---	3.5	640	61,000	45,000	0.91 J	10,000	3.1	5
1,2,4-Trimethylbenzene	12 J	---	---	---	---	---	---	---	---	5
Vinyl chloride	80	---	---	56	---	---	---	110	0.58 J	2
Xylene (total)	42 J	---	---	---	---	---	---	---	---	5

NOTES:

- all analyte concentrations are reported in micrograms per liter (parts per billion) unless otherwise noted
 ----- = the compound was not detected at a concentration above the laboratory practical quantitation limit.
 J = indicates an estimated value.

Highlighted cells represent concentrations greater than the applicable standard or guidance value

ENVIRONMENTAL RESOURCES MANAGEMENT

0019800/Report Tables Jul-06.xls/Table 3 - VOCs July 2006/11/2006

TABLE 4
SUMMARY OF GROUND WATER NATURAL ATTENUATION DATA
QUARTERLY GROUND WATER MONITORING - APRIL 2006
GREIF BROS. FACILITY - TONAWANDA, NY
NYSDEC VCP NUMBER V00334-9
ERM PROJECT NUMBER 0019800

Well Designation Ground Water Zone Date Sampled	MW-18 Int 18-Apr-06	MW-21I Int 18-Apr-06	MW-22 Int 18-Apr-06	MW-12 Shallow 18-Apr-06	MW-13 Shallow 18-Apr-06	MW-14 Shallow 18-Apr-06	MW-21S Shallow 18-Apr-06	MW-24 Shallow 18-Apr-06	MW-25 Shallow 18-Apr-06
<u>PRIMARY CONTAMINANTS</u>									
1,1,1-Trichloroethane	820	1.6	0.89 J	400	34,000	---	4.5	2.2 J	4.8
Trichloroethene	180	0.66 J	6.6	420	54,000	52,000	1.6	6700 D	2.1
Xylenes (Total)	74 J	---	---	---	---	---	---	160 DJ	---
<u>DAUGHTER PRODUCTS</u>									
Chloroethane	35 J	---	---	---	---	---	---	---	0.72 J
Ethane	---	---	---	---	---	---	---	---	---
Ethene	---	---	---	---	---	1.5	---	2.6	---
Methane	1.7	2.5	4.9	16	240	1.8	---	7.0	5.4
Total Dichloroethane	2,100	---	1.8	2000 D	8,300	2,600	---	30.0	10.0
Total Dichloroethene	550	---	0.78 J	2699 D	21,800	2230 J	---	3321 D	19.2
Vinyl Chloride	100	---	---	140	---	---	---	68 DJ	0.66 J
<u>ELECTRON DONORS</u>									
Iron, Ferrous (mg/L)	---	---	1.0	---	---	---	---	0.6	---
Sulfide (mg/L)	---	---	---	---	---	---	---	---	---
<u>ELECTRON ACCEPTORS</u>									
Dissolved Oxygen (mg/L)	4.44	5.92	4.86	4.46	4.57	6.92	3.60	6.38	3.89
Nitrate (mg/L)	---	---	---	---	---	---	---	0.13	1.4
Sulfate (mg/L)	414	120	519	145	182	134	83.1	1,020	1,960
<u>MISCELLANEOUS</u>									
Total Alkalinity (mg/L)	207	448	401	694	602	514	479	222	178
Bicarbonate Alkalinity (mg/L)	185	448	401	694	602	514	479	222	178
Carbonate Alkalinity (mg/L)	22.6	---	---	---	---	---	---	---	---
Hydroxide Alkalinity (mg/L)	---	---	---	---	---	---	---	---	---
Free Carbon Dioxide (mg/L)	NC	38	NC	NC	NC	65	90	NC	NC
Dissolved Organic Carbon (mg/L)	4.7	1.7	1.2	3.3	14.2	2.1	2.6	6.3	3.2
pH (standard units)	8.83	7.42	7.37	6.97	6.38	7.30	7.00	8.42	6.73
Temperature (degrees C)	14.78	17.67	16.47	18.18	17.08	18.14	18.66	21.58	18.25
Total Dissolved Solids (mg/L)	1,080	574	1,160	1,040	1,960	733	538	2,820	3,700
Total Hardness (mg/L)	432	351	643	688	2.7	508	381	1,500	1,870

NOTES:

- all analyte concentrations are reported in micrograms per liter (parts per billion) unless otherwise noted.

---- = compound was not detected above the laboratory quantitation limit.

J = indicates an estimated value.

- mg/L = milligrams per liter.

Free Carbon Dioxide calculated using a Ion Chromatographic Method.

- NC = the free carbon dioxide could not be calculated since one or more of the parameters necessary for the calculation were out of range of the scale limits on the nomograph utilized for the calculation.

Int= Intermediate Ground Water Zone

TABLE 5
SUMMARY OF GROUND WATER NATURAL ATTENUATION DATA
QUARTERLY GROUND WATER MONITORING REPORT- JULY 2006
GREIF BROS. FACILITY - TONAWANDA, NY
NYSDEC VCP NUMBER V00334-9
ERM PROJECT NUMBER 0019800

Well Designation Ground Water Zone Date Sampled	MW-18 Int 11-Jul-06	MW-21I Int 11-Jul-06	MW-22 Int 11-Jul-06	MW-12 Shallow 11-Jul-06	MW-13 Shallow 11-Jul-06	MW-14 Shallow 11-Jul-06	MW-21S Shallow 11-Jul-06	MW-24 Shallow 11-Jul-06	MW-25 Shallow 11-Jul-06
PRIMARY CONTAMINANTS									
1,1,1-Trichloroethane	160	---	---	660	41,000	---	3	---	9.5
Trichloroethene	110	---	3.5	640	61,000	45,000	0.91 J	10,000	3.1
Xylenes (Total)	42 J	---	---	---	---	---	---	---	---
DAUGHTER PRODUCTS									
Chloroethane	17 J	---	---	---	---	---	---	---	0.40 J
Ethane	----	----	----	----	----	----	----	----	----
Ethene	----	----	----	----	----	----	----	----	----
Methane	----	1.2	2.0	3.1	220.0	----	----	100.0	5.5
Total Dichloroethane	1,200	----	1.6	2,600	9,600	2,500	----	58 J	7.8
Total Dichloroethene	360	----	0.41 J	3,781	26420 J	1,400	----	5,600	19.94 J
Vinyl Chloride	80	---	---	56	---	---	---	110	0.58 J
ELECTRON DONORS									
Iron, Ferrous (mg/L)	----	----	0.2	----	0.7	0.2	----	3.5	0.6
Sulfide (mg/L)	----	----	----	----	----	----	----	----	----
ELECTRON ACCEPTORS									
Dissolved Oxygen (mg/L)	4.44	5.92	4.86	4.46	4.57	6.92	3.60	6.38	3.89
Nitrate (mg/L)	----	----	----	----	----	----	0.088	----	0.58
Sulfate (mg/L)	512	112	517	172	196	112	88.5	1,390	67.9
MISCELLANEOUS									
Total Alkalinity (mg/L)	415	512	422	773	682	603	546	401	231
Bicarbonate Alkalinity (mg/L)	391	509	417	774	682	606	544	399	240
Carbonate Alkalinity (mg/L)	8.6	----	----	----	----	----	----	----	----
Hydroxide Alkalinity (mg/L)	----	----	----	----	----	----	----	----	----
Free Carbon Dioxide (mg/L)	NC	38	NC	NC	NC	65	90	NC	NC
Dissolved Organic Carbon (mg/L)	4.7	1.7	1.2	3.2	14.9	2.6	1.7	7.4	2.5
pH (standard units)	8.83	7.42	7.37	6.97	6.38	7.30	7.00	8.42	6.73
Temperature (degrees C)	14.78	17.67	16.47	18.18	17.08	18.14	18.66	21.58	18.25
Total Dissolved Solids (mg/L)	1,240	595	1,180	1,070	1,830	774	572	3,030	3,980
Total Hardness (mg/L)	734	398	724	779	758	583	411	1,780	2,570

NOTES:

- all analyte concentrations are reported in micrograms per liter (parts per billion) unless otherwise noted.

---- = compound was not detected above the laboratory quantitation limit.

J = indicates an estimated value.

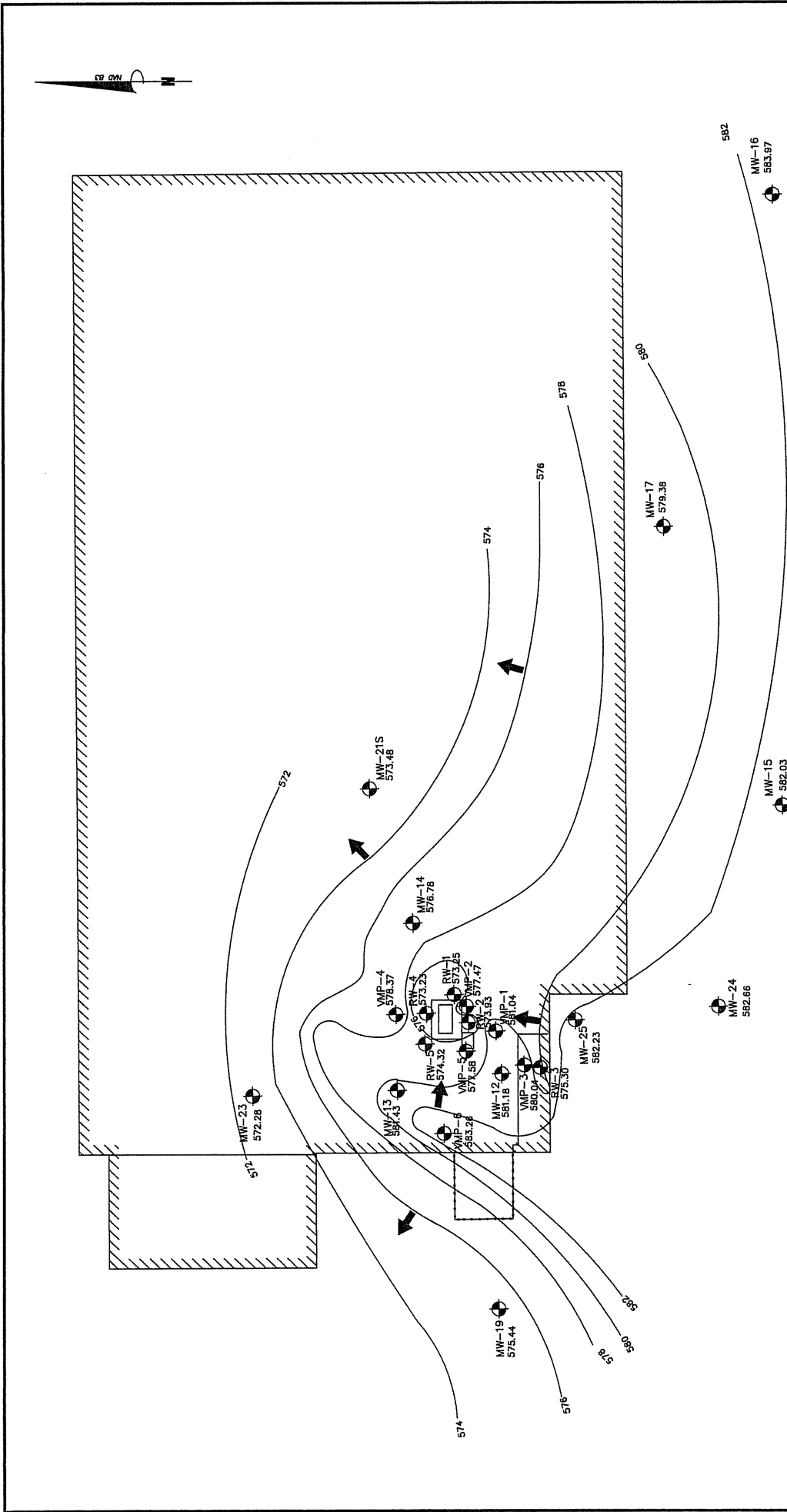
- mg/L = milligrams per liter.

Free Carbon Dioxide calculated using a nomographic standard method.

- NC = the free carbon dioxide could not be calculated since one or more of the parameters necessary for the calculation were out of range of the scale limits on the nomograph utilized for the calculation.

Int= Intermediate Ground Water Zone

ATTACHMENT C
FIGURES



SHALLOW GROUND WATER
 CONTOUR PLOT 17 & 18 April 2006
 Greif Brothers Facility
 2122 Colvin Boulevard
 Tonawanda, New York

PREPARED FOR: **SONOCO PRODUCTS CO.**

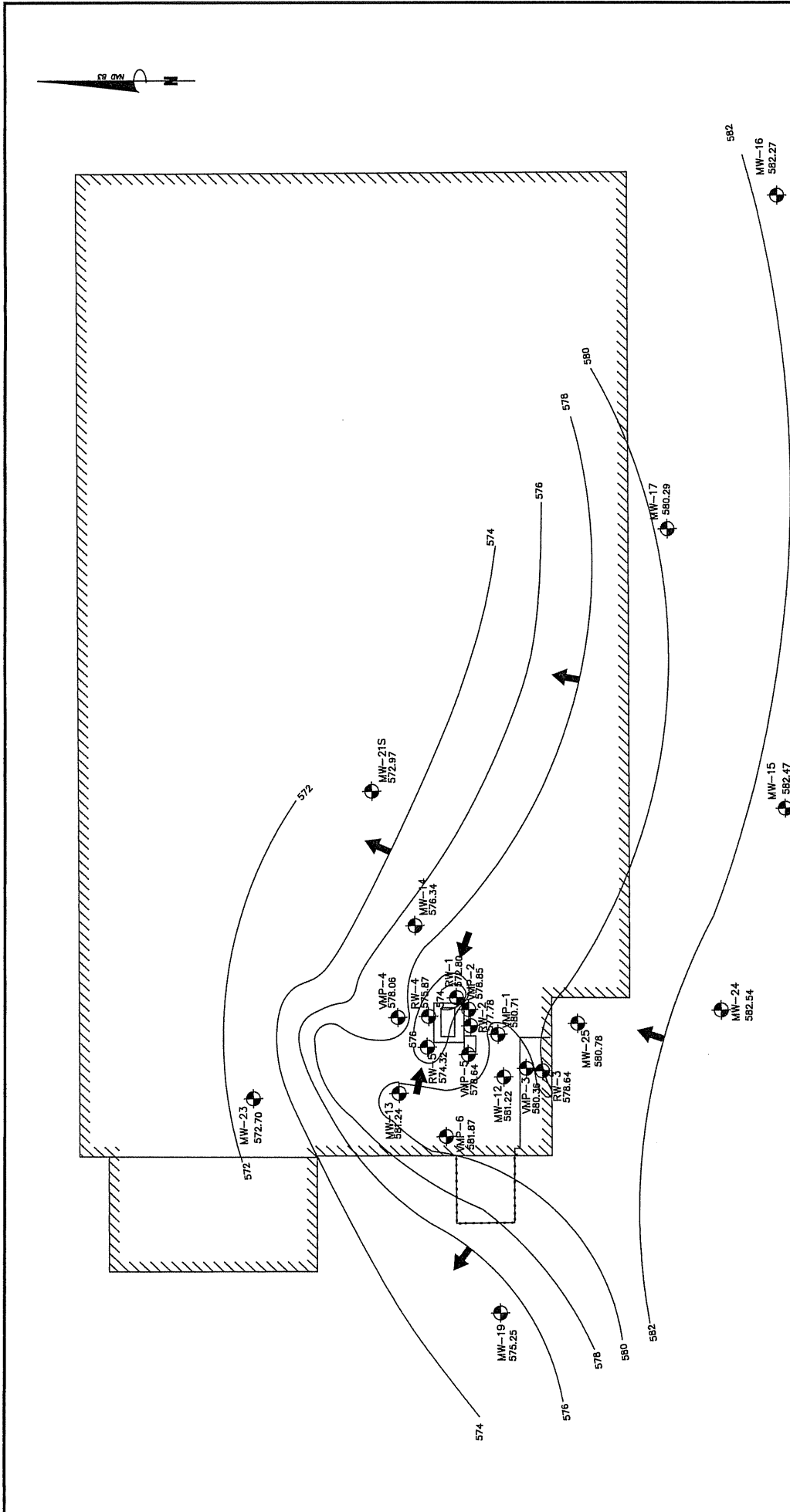
SCALE	N.T.S.	FIGURE
		1
DATE		06/06

ERM
 5788 MIDWATERS PARKWAY
 DEWITT, NEW YORK 13214

- LEGEND**
- WMP-36 Well Location
 - 580.00 — Ground Water Contour (feet ansi)
 - 577.86 Ground Water Elevation (feet ansi)
 - ➔ Direction of Ground Water Flow

Note: Ground water elevation data collected during operation of DNAPL recovery system.

Note: Base map obtained from WM, Schutt & Associates, P.C. survey drawings updated on 12 January 2006.



SHALLOW GROUND WATER
 CONTOUR PLOT 10 & 11 July 2006
 Greif Brothers Facility
 2122 Colvin Boulevard
 Tonawanda, New York

PREPARED FOR
 SONOCO Product Co.

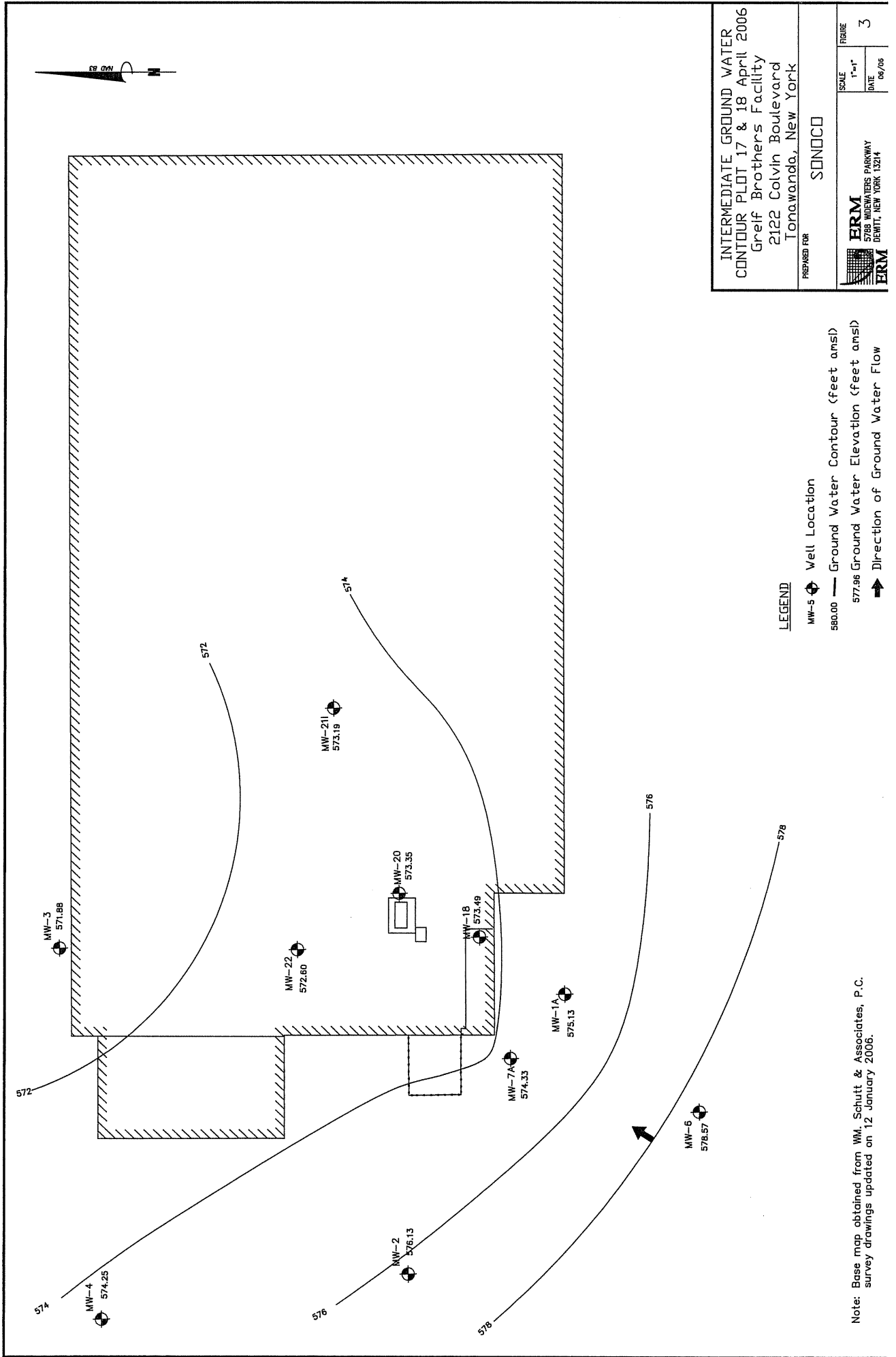
SCALE	1"=1'	FIGURE	2
	DATE		

ERM
 5788 WIDEWATERS PARKWAY
 DEWITT, NEW YORK 13214

- LEGEND**
- MW-36 Well Location
 - 577.96 Ground Water Contour (feet amsl)
 - 577.96 Ground Water Elevation (feet amsl)
 - Direction of Ground Water Flow

Note: Ground water elevation data collected during operation of DNAPL recovery system.

Note: Base map obtained from WM, Schutt & Associates, P.C. survey drawings updated on 12 January 2006.



INTERMEDIATE GROUND WATER
 CONTOUR PLOT 17 & 18 April 2006
 Greif Brothers Facility
 2122 Colvin Boulevard
 Tonaawanda, New York

PREPARED FOR: SONOCO

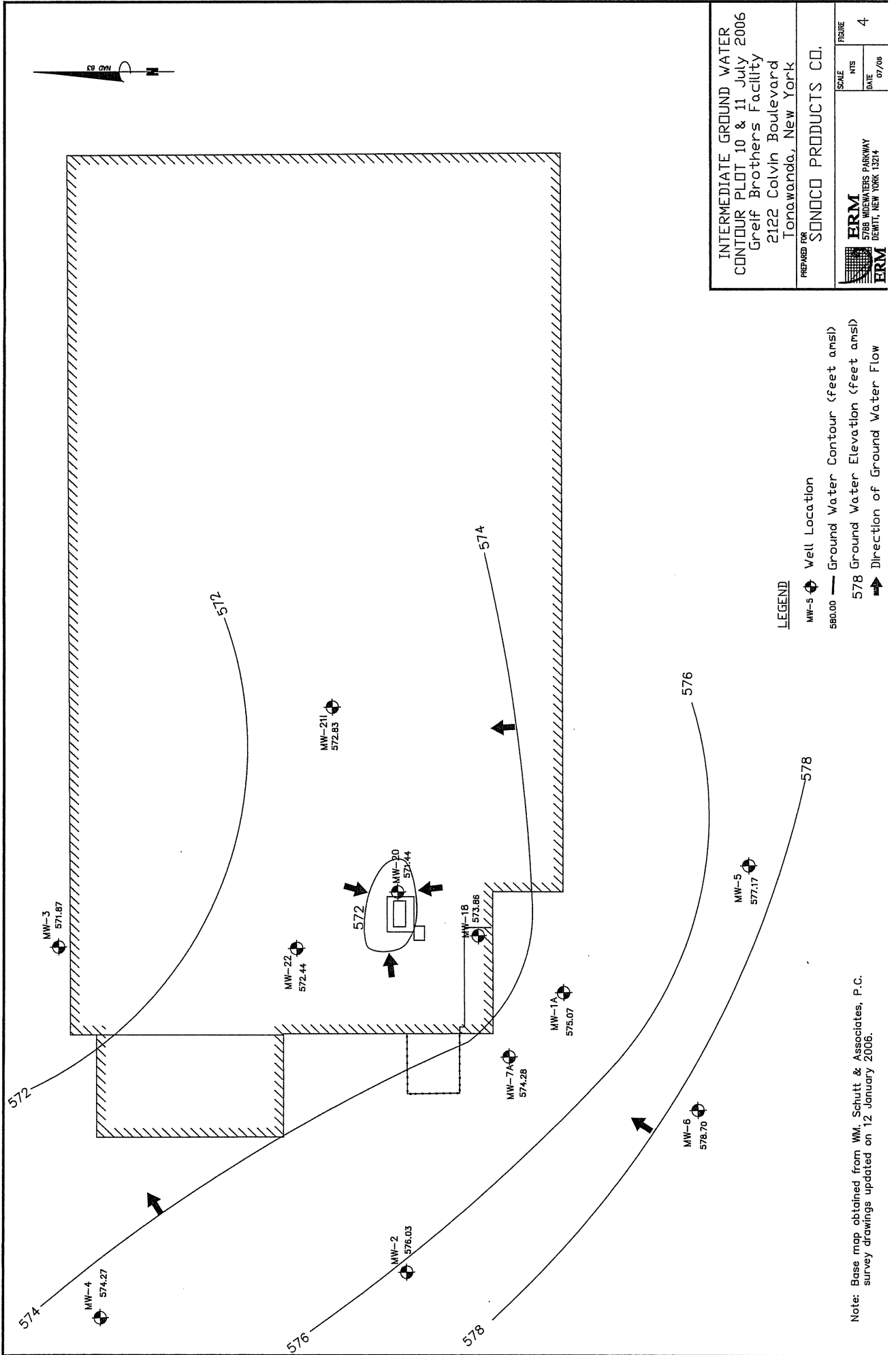
SCALE	FIGURE
1"=1'	3
DATE	06/06

ERM
 5700 INDUSTRY PARKWAY
 DENVER, NEW YORK 13214

LEGEND

- MW-5 ● Well Location
- 580.00 — Ground Water Contour (feet ams)
- 577.96 - - - Ground Water Elevation (feet ams)
- ➔ Direction of Ground Water Flow

Note: Base map obtained from WM. Schutt & Associates, P.C. survey drawings updated on 12 January 2006.



ATTACHMENT D
APRIL 2006 LABORATORY ANALYTICAL REPORT

STL Buffalo10 Hazelwood Drive, Suite 106
Amherst, NY 14228Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com


ANALYTICAL REPORT

Job#: A06-4186

STL Project#: NY1A8821

Site Name: ERM - GREIF BROTHERSTask: ERM GREIF BROS. AQUEOUS SAMPLINGMr. Jon Fox
ERM
5788 Widewaters Pkwy
Dewitt, NY 13214

STL Buffalo



Brian J. Fischer
Project Manager

04/28/2006

STL Buffalo Current Certifications

As of 4/10/2006

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA, ASP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A6418601	GREIF-DUP (04/06)	WATER	04/18/2006		04/19/2006	07:30
A6418609	GREIF-MW-12 (04/06)	WATER	04/18/2006	15:50	04/19/2006	07:30
A6418610	GREIF-MW-13 (04/06)	WATER	04/18/2006	16:15	04/19/2006	07:30
A6418608	GREIF-MW-14 (04/06)	WATER	04/18/2006	15:30	04/19/2006	07:30
A6418602	GREIF-MW-18 (04/06)	WATER	04/18/2006	08:20	04/19/2006	07:30
A6418602MS	GREIF-MW-18 (04/06)	WATER	04/18/2006	08:20	04/19/2006	07:30
A6418602SD	GREIF-MW-18 (04/06)	WATER	04/18/2006	08:20	04/19/2006	07:30
A6418606	GREIF-MW-21I (04/06)	WATER	04/18/2006	14:40	04/19/2006	07:30
A6418605	GREIF-MW-21S (04/06)	WATER	04/18/2006	14:20	04/19/2006	07:30
A6418607	GREIF-MW-22 (04/06)	WATER	04/18/2006	15:10	04/19/2006	07:30
A6418603	GREIF-MW-24 (04/06)	WATER	04/18/2006	09:50	04/19/2006	07:30
A6418604	GREIF-MW-25 (04/06)	WATER	04/18/2006	10:20	04/19/2006	07:30
A6418611	TRIP BLANK (04/06)	WATER	04/18/2006		04/19/2006	07:30

METHODS SUMMARY

Job#: A06-4186STL Project#: NY1A8821Site Name: ERM - GREIF BROTHERS

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - SELECT VOLATILE ORGANICS	SW8463 8260
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	OTHER RSK175
Bicarbonate Alkalinity	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1
Hydroxyl Alkalinity	MCAWW 310.1
Nitrate	MCAWW 353.2
Soluble Organic Carbon	SW8463 9060
Sulfate	MCAWW 375.4
Sulfide	MCAWW 376.1
Total Alkalinity	MCAWW 310.1
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
OTHER	Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A06-4186STL Project#: NY1A8821Site Name: ERM - GREIF BROTHERSGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-4186

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
Samples for parameter SOC were not filtered in the field. These samples were filtered in Sample Control using 0.45 um paper and poured into 1, 40 ml vial per each, pre-preserved with hcl.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

The recovery of sample Greif MW 18(04/06) Matrix Spike exhibited results below the quality control limits for Sulfate. The recovery of sample Greif MW 18(04/06) Matrix Spike Duplicate exhibited results below the quality control limits for Sulfate. However, the LCS was acceptable.

The value obtained for Total Dissolved Solids on sample GREIF-MW-25 has a TDS/Conductivity ratio outside the valid range. Reanalysis was performed and the value was confirmed.

The requested reporting limit for Hydroxide Alkalinity is below STL's standard reporting limit. It must be noted that results reported below STL's standard reporting limit may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations. Therefore, no corrective action has been taken for any detections between the requested reporting limit and STLs standard reporting limit.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."



Brian J. Fischer
Project Manager

4-28-02

Date

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
GREIF-DUP (04/06)	A6418601	8260	40.00	008
GREIF-DUP (04/06)	A6418601	Sulfate	25.00	008
GREIF-MW-18 (04/06)	A6418602	8260	40.00	008
GREIF-MW-18 (04/06)	A6418602	Sulfate	25.00	008
GREIF-MW-18 (04/06)	A6418602MS	8260	40.00	008
GREIF-MW-18 (04/06)	A6418602MS	Sulfate	25.00	008
GREIF-MW-18 (04/06)	A6418602SD	8260	40.00	008
GREIF-MW-18 (04/06)	A6418602SD	Sulfate	25.00	008
GREIF-MW-24 (04/06)	A6418603	8260	4.00	008
GREIF-MW-24 (04/06)	A6418603	Sulfate	121.00	008
GREIF-MW-24 (04/06)	A6418603	Total Hardness	5.00	008
GREIF-MW-24 (04/06)	A6418603DL	8260	80.00	008
GREIF-MW-25 (04/06)	A6418604	Sulfate	121.00	008
GREIF-MW-25 (04/06)	A6418604	Total Hardness	5.00	008
GREIF-MW-21S (04/06)	A6418605	Sulfate	5.00	008
GREIF-MW-21I (04/06)	A6418606	Sulfate	5.00	008
GREIF-MW-22 (04/06)	A6418607	Sulfate	25.00	008
GREIF-MW-14 (04/06)	A6418608	8260	800.00	008
GREIF-MW-14 (04/06)	A6418608	Sulfate	5.00	008
GREIF-MW-12 (04/06)	A6418609	8260	20.00	008
GREIF-MW-12 (04/06)	A6418609	RSK175	10.00	008
GREIF-MW-12 (04/06)	A6418609	Sulfate	20.00	008
GREIF-MW-12 (04/06)	A6418609DL	8260	40.00	008
GREIF-MW-13 (04/06)	A6418610	8260	800.00	008
GREIF-MW-13 (04/06)	A6418610	RSK175	100.00	008
GREIF-MW-13 (04/06)	A6418610	Sulfate	20.00	008

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No	A06-4186		ND	200	A06-4186	200	A06-4186	200
Sample Date	04/18/2006		ND	40	04/18/2006	40	04/18/2006	40
Analyte		UG/L	ND	200		200		200
Acetone		UG/L	ND	40		40		40
Benzene		UG/L	ND	200		200		200
2-Butanone		UG/L	ND	40		40		40
Chloroethane		UG/L	ND	40		40		40
Chloroform		UG/L	ND	40		40		40
1,1-Dichloroethane		UG/L	2000	40		40		40
1,2-Dichloroethane		UG/L	ND	40		40		40
1,1-Dichloroethene		UG/L	410	40		40		40
cis-1,2-Dichloroethene		UG/L	2300	40		40		40
trans-1,2-Dichloroethene		UG/L	43	40		40		40
Ethylbenzene		UG/L	ND	40		40		40
Methylene chloride		UG/L	ND	40		40		40
4-Methyl-2-pentanone		UG/L	ND	200		200		200
Tetrachloroethene		UG/L	ND	40		40		40
Toluene		UG/L	ND	40		40		40
1,1,1-Trichloroethane		UG/L	360	40		40		40
1,1,2-Trichloroethane		UG/L	ND	40		40		40
Trichloroethene		UG/L	370	40		40		40
1,2,4-Trimethylbenzene		UG/L	ND	40		40		40
Vinyl chloride		UG/L	120	40		40		40
Total Xylenes		UG/L	ND	120		120		120
IS/SURROGATE(S)								
Chlorobenzene-D5		%	92	50-200		50-200		50-200
1,4-Difluorobenzene		%	98	50-200		50-200		50-200
1,4-Dichlorobenzene-D4		%	80	50-200		50-200		50-200
Toluene-D8		%	104	76-122		76-122		76-122
p-Bromofluorobenzene		%	91	73-120		73-120		73-120
1,2-Dichloroethane-D4		%	99	72-143		72-143		72-143
			81	50-200		50-200		50-200
			84	50-200		50-200		50-200
			73	50-200		50-200		50-200
			104	76-122		76-122		76-122
			92	73-120		73-120		73-120
			99	72-143		72-143		72-143
			87	50-200		50-200		50-200
			92	50-200		50-200		50-200
			76	50-200		50-200		50-200
			108	76-122		76-122		76-122
			95	73-120		73-120		73-120
			108	72-143		72-143		72-143
			84	50-200		50-200		50-200
			87	50-200		50-200		50-200
			77	50-200		50-200		50-200
			106	76-122		76-122		76-122
			93	73-120		73-120		73-120
			102	72-143		72-143		72-143

Date: 04/28/2006
Time: 15:57:48

ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
METHOD 8260 - SELECT VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	GREIF-MW-14 (04/06) A06-4186 04/18/2006	GREIF-MW-18 (04/06) A06-4186 04/18/2006	GREIF-MW-21I (04/06) A06-4186 04/18/2006	GREIF-MW-21S (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	4000	ND	5.0
Benzene	UG/L	ND	800	ND	1.0
2-Butanone	UG/L	ND	4000	ND	5.0
Chloroethane	UG/L	ND	800	ND	1.0
Chloroform	UG/L	ND	800	ND	1.0
1,1-Dichloroethane	UG/L	2600	800	ND	1.0
1,2-Dichloroethane	UG/L	1700	800	ND	1.0
1,1-Dichloroethene	UG/L	530 J	800	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	800	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	800	ND	1.0
Ethylbenzene	UG/L	ND	800	ND	1.0
Methylene chloride	UG/L	ND	800	ND	1.0
4-Methyl-2-pentanone	UG/L	ND	4000	ND	5.0
Tetrachloroethene	UG/L	ND	800	ND	1.0
Toluene	UG/L	ND	800	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	800	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	800	ND	1.0
Trichloroethene	UG/L	52000	800	ND	1.0
1,2,4-Trimethylbenzene	UG/L	ND	800	ND	1.0
Vinyl chloride	UG/L	ND	800	ND	1.0
Total Xylenes	UG/L	ND	2400	ND	3.0
<u>IS/SURROGATE(S)</u>					
Chlorobenzene-D5	%	84	50-200	83	50-200
1,4-Difluorobenzene	%	85	50-200	86	50-200
1,4-Dichlorobenzene-D4	%	77	50-200	73	50-200
Toluene-D8	%	103	76-122	105	76-122
p-Bromofluorobenzene	%	91	73-120	94	73-120
1,2-Dichloroethane-D4	%	101	72-143	108	72-143

Date: 04/28/2006
Time: 15:57:48

ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
METHOD 8260 - SELECT VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	GREIF-MW-22 (04/06) A06-4186 04/18/2006	GREIF-MW-24 (04/06) A06-4186 04/18/2006	GREIF-MW-24 (04/06) A6418603 04/18/2006	GREIF-MW-24 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A6418603DL A6418604
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	20	ND	400
Benzene	UG/L	ND	1.0	32	4.0	ND	80
2-Butanone	UG/L	ND	5.0	ND	20	ND	400
Chloroethane	UG/L	ND	1.0	ND	4.0	0.72 J	80
Chloroform	UG/L	ND	1.0	ND	4.0	ND	80
1,1-Dichloroethane	UG/L	1.8	1.0	30	4.0	10	80
1,2-Dichloroethane	UG/L	ND	1.0	ND	4.0	ND	80
1,1-Dichloroethene	UG/L	ND	1.0	8.6	4.0	1.2	80
cis-1,2-Dichloroethene	UG/L	0.78 J	1.0	2600 E	4.0	18	80
trans-1,2-Dichloroethene	UG/L	ND	1.0	12	4.0	ND	80
Ethylbenzene	UG/L	ND	1.0	2.8 J	4.0	ND	80
Methylene chloride	UG/L	ND	1.0	2.9 J	4.0	ND	80
4-Methyl-2-pentanone	UG/L	ND	1.0	ND	4.0	ND	80
Tetrachloroethene	UG/L	ND	5.0	8.0	20	ND	400
Toluene	UG/L	ND	1.0	12	4.0	ND	80
1,1,1-Trichloroethane	UG/L	0.89 J	1.0	2.2 J	4.0	4.8	80
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	4.0	ND	80
Trichloroethene	UG/L	6.6	1.0	4600 E	4.0	2.1	80
1,2,4-Trimethylbenzene	UG/L	ND	1.0	2.2 J	4.0	ND	80
Vinyl chloride	UG/L	ND	1.0	49	4.0	0.66 J	80
Total Xylenes	UG/L	ND	3.0	8.1 J	12	ND	240
<u>IS/SURROGATE(S)</u>							
Chlorobenzene-D5	%	85	50-200	88	50-200	91	50-200
1,4-Difluorobenzene	%	86	50-200	89	50-200	95	50-200
1,4-Dichlorobenzene-D4	%	77	50-200	81	50-200	78	50-200
Toluene-D8	%	107	76-122	104	76-122	103	76-122
p-Bromofluorobenzene	%	95	73-120	93	73-120	92	73-120
1,2-Dichloroethane-D4	%	105	72-143	100	72-143	103	72-143

Client ID	Lab ID	GREIF-DUP (04/06) A06-4186 04/18/2006	GREIF-MW-12 (04/06) A06-4186 04/18/2006	GREIF-MW-13 (04/06) A06-4186 04/18/2006	GREIF-MW-14 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value	Sample Value	Sample Value
		Reporting Limit	Reporting Limit	Reporting Limit	Reporting Limit
Ethane	UG/L	1.5	15	150	1.5
Ethene	UG/L	1.5	15	150	1.5
Methane	UG/L	1.0	10	100	1.0
		6.5	16	240	1.8

Client ID	Lab ID	GREIF-MW-18 (04/06) A06-4186 04/18/2006	GREIF-MW-21I (04/06) A06-4186 04/18/2006	GREIF-MW-21S (04/06) A06-4186 04/18/2006	GREIF-MW-22 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value	Sample Value	Sample Value
		Reporting Limit	Reporting Limit	Reporting Limit	Reporting Limit
Ethane	UG/L	1.5	1.5	1.5	1.5
Ethene	UG/L	1.5	1.5	1.5	1.5
Methane	UG/L	1.0	1.0	1.0	1.0
		1.7	2.5	ND	4.9

Client ID	Lab ID	GREIF-MW-24 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value
		Reporting Limit	Reporting Limit
Ethane	UG/L	1.5	1.5
Ethene	UG/L	1.5	1.5
Methane	UG/L	1.0	1.0
		2.6	5.4
		7.0	NA

Date: 04/28/2006
Time: 15:58:01

ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
ERM - ALKALINITY GROUP

Rept: AN0326

Client ID Job No Sample Date	Lab ID	GREIF-DUP (04/06) A06-4186 04/18/2006	GREIF-MW-12 (04/06) A06-4186 04/18/2006	GREIF-MW-13 (04/06) A06-4186 04/18/2006	GREIF-MW-14 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value	Sample Value	Sample Value
		Reporting Limit	Reporting Limit	Reporting Limit	Reporting Limit
Bicarbonate Alkalinity	MG/L	688	694	602	514
Carbonate Alkalinity	MG/L	ND	ND	ND	ND
Hydroxyl Alkalinity	MG/L	ND	ND	ND	ND
		5.0	5.0	5.0	5.0
		5.0	5.0	5.0	5.0
		0.79	0.79	0.79	0.79

Client ID Job No Sample Date	Lab ID	GREIF-MW-18 (04/06) A06-4186 04/18/2006	GREIF-MW-211 (04/06) A06-4186 04/18/2006	GREIF-MW-21S (04/06) A06-4186 04/18/2006	GREIF-MW-22 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value	Sample Value	Sample Value
		Reporting Limit	Reporting Limit	Reporting Limit	Reporting Limit
Bicarbonate Alkalinity	MG/L	185	448	479	401
Carbonate Alkalinity	MG/L	22.6	ND	ND	ND
Hydroxyl Alkalinity	MG/L	ND	ND	ND	ND
		5.0	5.0	5.0	5.0
		5.0	5.0	5.0	5.0
		0.79	0.79	0.79	0.79

Client ID Job No Sample Date	Lab ID	GREIF-MW-24 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A06-4186 04/18/2006	GREIF-MW-25 (04/06) A06-4186 04/18/2006
Analyte	Units	Sample Value	Sample Value	Sample Value	Sample Value
		Reporting Limit	Reporting Limit	Reporting Limit	Reporting Limit
Bicarbonate Alkalinity	MG/L	222	178	NA	NA
Carbonate Alkalinity	MG/L	ND	ND	NA	NA
Hydroxyl Alkalinity	MG/L	ND	ND	NA	NA
		5.0	5.0	5.0	5.0
		5.0	5.0	5.0	5.0
		0.79	0.79	0.79	0.79

Date: 04/28/2006
Time: 15:58:01

ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID	Lab ID	GREIF-DUP (04/06)	GREIF-MW-12 (04/06)	GREIF-MW-13 (04/06)	GREIF-MW-14 (04/06)
Job No	A06-4186	A06-4186	A06-4186	A06-4186	A06-4186
Sample Date	04/18/2006	04/18/2006	04/18/2006	04/18/2006	04/18/2006
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrate	MG/L-N	ND	0.050	ND	0.050
Soluble Organic Carbon	MG/L	4.0	1.0	14.2	1.0
Sulfate	MG/L	139	125	182	100
Sulfide	MG/L	ND	1.0	ND	1.0
Total Alkalinity	MG/L	688	5.0	602	5.0
Total Dissolved Solids	MG/L	1020	10	1960	10
Total Hardness	MG/L	771	2.0	688	2.0
				2.7	508

Client ID	Lab ID	GREIF-MW-18 (04/06)	GREIF-MW-211 (04/06)	GREIF-MW-21S (04/06)	GREIF-MW-22 (04/06)
Job No	A06-4186	A06-4186	A06-4186	A06-4186	A06-4186
Sample Date	04/18/2006	04/18/2006	04/18/2006	04/18/2006	04/18/2006
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Nitrate	MG/L-N	ND	0.050	ND	0.050
Soluble Organic Carbon	MG/L	4.7	1.0	2.6	1.0
Sulfate	MG/L	414	125	83.1	25.0
Sulfide	MG/L	ND	1.0	ND	1.0
Total Alkalinity	MG/L	207	5.0	479	5.0
Total Dissolved Solids	MG/L	1080	10	538	10
Total Hardness	MG/L	432	2.0	381	2.0
				1.2	0.050
				519	1.0
				ND	125
				401	1.0
				1160	5.0
				643	10
					2.0

Client ID	Lab ID	GREIF-MW-24 (04/06)	GREIF-MW-25 (04/06)
Job No	A06-4186	A06-4186	A06-4186
Sample Date	04/18/2006	04/18/2006	04/18/2006
Analyte	Units	Sample Value	Reporting Limit
Nitrate	MG/L-N	0.13	0.050
Soluble Organic Carbon	MG/L	6.3	1.0
Sulfate	MG/L	1020	605
Sulfide	MG/L	ND	1.0
Total Alkalinity	MG/L	222	5.0
Total Dissolved Solids	MG/L	2820	10
Total Hardness	MG/L	1500	10
		1.4	0.050
		3.2	1.0
		1960	605
		ND	1.0
		178	5.0
		3700	10
		1870	10

ATTACHMENT E
JULY 2006 GROUND WATER SAMPLING RECORDS

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-24 (07/06)

WELL ID: MW-24

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 14.40

Time: _____

Static water level (from top of casing) 2.84

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

Well Volume Calculation:

2 in. well: 11.56 ft. of water x 0.16 = _____
 3 in. well: _____ ft. of water x 0.36 = _____
 4 in. well: _____ ft. of water x 0.65 = _____
 6 in. well: _____ ft. of water x 1.47 = _____

1 volume 3 volumes

1.8 gal. x 3 = 5.5 gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.

Volume of water removed:

5.5 gal.

>3 volumes: yes no purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>9.07</u>	<u>1.68</u>	<u>63.7</u>	<u>5.70</u>	<u>22.57</u>	-	<u>0.85</u>	<u>1.10</u>	<u>1539</u>
1 Volume	<u>7.16</u>	<u>3.82</u>	<u>179.</u>	<u>4.60</u>	<u>21.27</u>	-	<u>2.02</u>	<u>2.48</u>	<u>-2.7</u>
2 Volumes	<u>6.66</u>	<u>3.82</u>	<u>118.2</u>	<u>6.04</u>	<u>21.47</u>	-	<u>2.02</u>	<u>2.48</u>	<u>24.3</u>
3 Volumes	<u>8.42</u>	<u>3.77</u>	<u>492</u>	<u>6.38</u>	<u>21.58</u>	-	<u>1.89</u>	<u>2.40</u>	<u>1.1</u>

Sampling

Time of Sample Collection: 08:50

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 503.1 _____ Other _____

Select Natural Attenuation Parameters

Observations

Weather/Temperature: ± 75°F, rain, calm

Sample Description: _____

- Free Product? yes no describe _____
 Sheen? yes no describe _____
 Odor? yes no describe _____

Comments:

Field Test: 3.5 mg/l

GROUND WATER SAMPLING RECORD

SITE Groff Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groff-MW-25 (07/06)

WELL ID: MW-25

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 14.55

Time: _____

Static water level (from top of casing) 5.78

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

2 in. well: 8.73 ft. of water x 0.16 =
 3 in. well: _____ ft. of water x 0.36 =
 4 in. well: _____ ft. of water x 0.65 =
 6 in. well: _____ ft. of water x 1.47 =

1.39 gal. x 3 = 4.2 gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.

Volume of water removed:

4.2 gal.

>3 volumes: yes no

purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.67</u>	<u>3.97</u>	<u>99</u>	<u>3.14</u>	<u>18.64</u>	-	<u>2.11</u>	<u>2.58</u>	<u>171.2</u>
1 Volume	<u>6.70</u>	<u>4.23</u>	<u>1918</u>	<u>4.42</u>	<u>18.10</u>	-	<u>2.27</u>	<u>2.76</u>	<u>90.8</u>
2 Volumes	<u>6.68</u>	<u>4.34</u>	<u>1843</u>	<u>2.09</u>	<u>18.35</u>	-	<u>2.31</u>	<u>2.81</u>	<u>60.8</u>
3 Volumes	<u>6.73</u>	<u>4.19</u>	<u>3902</u>	<u>2.89</u>	<u>18.25</u>	-	<u>2.24</u>	<u>2.73</u>	<u>56.1</u>

Sampling

Time of Sample Collection: 9:20

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other

Analytical Method:

8260 503.1 _____ Other _____

Select Natural Attenuation Parameters

Observations

Weather/Temperature: ±75°F, rain, calm

Sample Description: _____

- Free Product? yes no describe _____
 Sheen? yes no describe _____
 Odor? yes no describe _____

Comments:

Field Test: 0.6 mg/l

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-ZIS(07/06)

WELL ID: MW-ZIS

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 16.38

Time: _____

Static water level (from top of casing) 13.91

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

Well Volume Calculation:

1 volume 3 volumes
 2 in. well: 2.47 ft. of water x 0.16 = 0.39 gal. x 3 = 1.1 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

1.1 gal.

>3 volumes: yes no

purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.91</u>	<u>1.01</u>	<u>7.67</u>	<u>3.51</u>	<u>18.72</u>	-	<u>6.50</u>	<u>0.66</u>	<u>161.1</u>
1 Volume	<u>7.02</u>	<u>1.00</u>	<u>15.5</u>	<u>3.37</u>	<u>18.65</u>	-	<u>0.49</u>	<u>0.65</u>	<u>179.9</u>
2 Volumes	<u>6.97</u>	<u>0.99</u>	<u>24.8</u>	<u>4.42</u>	<u>18.60</u>	-	<u>0.49</u>	<u>0.65</u>	<u>180.5</u>
3 Volumes	<u>7.00</u>	<u>0.99</u>	<u>41.4</u>	<u>3.6</u>	<u>18.66</u>	-	<u>0.49</u>	<u>0.65</u>	<u>192.5</u>

Sampling

Time of Sample Collection: 10:10

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other Select Natural Attenuation Parameters

Analytical Method:

8260 503.1 _____ Other _____

Observations

Weather/Temperature: ±80°F, overcast, calm

Sample Description: _____

Free Product? yes no describe _____

Sheen? yes no describe _____

Odor? yes no describe _____

Comments:

Field Test: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-21I(07/06)

WELL ID: MW-21I

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 35.54

Time: _____

Static water level (from top of casing) 13.52

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

Airlift Low-Flow Pump

2 in. well: 2202 ft. of water x 0.16 = _____ gal.

_____ gal. x 3 = _____ gal.

Bailer Peristaltic Pump

3 in. well: _____ ft. of water x 0.36 = _____ gal.

_____ gal. x 3 = _____ gal.

Submersible Ded. Pump

4 in. well: _____ ft. of water x 0.65 = _____ gal.

_____ gal. x 3 = _____ gal.

6 in. well: _____ ft. of water x 1.47 = _____ gal.

_____ gal. x 3 = _____ gal.

Volume of water removed:

7.5 gal.

>3 volumes: yes _____ no purged dry? yes no _____

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.10</u>	<u>0.99</u>	<u>6.60</u>	<u>2.35</u>	<u>18.00</u>	-	<u>0.49</u>	<u>0.64</u>	<u>182.6</u>
1 Volume	<u>7.30</u>	<u>0.98</u>	<u>228</u>	<u>2.53</u>	<u>17.97</u>	-	<u>0.49</u>	<u>0.64</u>	<u>161.4</u>
2 Volumes	<u>7.42</u>	<u>1.04</u>	<u>8498</u>	<u>5.92</u>	<u>17.67</u>	-	<u>0.52</u>	<u>0.67</u>	<u>-69.8</u>
3 Volumes					<u>Dry</u>				

Sampling

Time of Sample Collection: 10:25

Collection Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

Analyses:

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other Select Natural Attenuation Parameters

Analytical Method:

8260 503.1 _____ Other _____

Observations

Weather/Temperature: ±80°F, partly cloudy, calm

Sample Description: _____

Free Product? yes _____ no describe _____

Sheen? yes _____ no describe _____

Odor? yes _____ no describe _____

Comments:

Field Test: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-22(07/06)

WELL ID: MW-22

Time Onsite:

Time Offsite:

SAMPLERS: R. Sants

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 33.81

Time: _____

Static water level (from top of casing) 14.33

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

Well Volume Calculation:

1 volume

3 volumes

_____ Airlift _____ Low-Flow Pump

2 in. well: 19.48 ft. of water x 0.16 =

3.1 gal. x 3 = 9.3 gal.

Bailer _____ Peristaltic Pump

3 in. well: _____ ft. of water x 0.36 =

_____ gal. x 3 = _____ gal.

_____ Submersible _____ Ded. Pump

4 in. well: _____ ft. of water x 0.65 =

_____ gal. x 3 = _____ gal.

6 in. well: _____ ft. of water x 1.47 =

_____ gal. x 3 = _____ gal.

Volume of water removed:

9.5 gal.

>3 volumes: yes no _____

purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.49</u>	<u>1.76</u>	<u>20.8</u>	<u>5.05</u>	<u>17.51</u>	-	<u>0.89</u>	<u>1.14</u>	<u>109.8</u>
1 Volume	<u>7.35</u>	<u>1.87</u>	<u>86.3</u>	<u>4.27</u>	<u>16.66</u>	-	<u>0.96</u>	<u>1.21</u>	<u>-82.2</u>
2 Volumes	<u>7.37</u>	<u>1.72</u>	<u>105</u>	<u>5.69</u>	<u>16.46</u>	-	<u>0.88</u>	<u>1.12</u>	<u>-79.0</u>
3 Volumes	<u>7.37</u>	<u>1.70</u>	<u>86.9</u>	<u>4.86</u>	<u>16.47</u>	-	<u>0.87</u>	<u>1.10</u>	<u>-77.2</u>

Sampling

Time of Sample Collection: 13:50

Collection Method:

Disposable bailer

_____ Teflon bailer

_____ Dedicated pump

_____ Submersible Pump

_____ Low-Flow Sampling

_____ Other: _____

Analyses:

VOCs -

_____ SVOCs

_____ Metals

_____ PCB/Pest

_____ MNA

Other

Analytical Method:

8260 503.1 _____

Other _____

Select Natural Attenuation Parameters

Observations

Weather/Temperature: ±80°F, overcast, calm

Sample Description: _____

Free Product? yes _____ no describe _____

Sheen? yes _____ no describe _____

Odor? yes _____ no describe _____

Comments:

Field Fe²⁺: 0.7 mg/l

GROUND WATER SAMPLING RECORD

SITE Groif Bros. DATE 10-11 July 2006
 PROJECT NUMBER: 0019800
 SAMPLE ID: Groif-MW-18 (07/06) & Groif-Dup (07/06)
 WELL ID: MW-18 Time Onsite: _____ Time Offsite: _____
 SAMPLERS: R. Sents 7/10 07:30 21:15
C. Wunderlich 7/11 08:00 15:30

Depth of well (from top of casing) 28.35 Time: _____
 Static water level (from top of casing) 8.85 Time: _____
 Water level after purging (from top of casing) _____ Time: _____
 Water level before sampling (from top of casing) _____ Time: _____

Purging Method: _____ Well Volume Calculation: 1 volume 3 volumes
 Airlift _____ Low-Flow Pump 2 in. well: 19.5 ft. of water x 0.16 = 3.12 gal. x 3 = 9.36 gal.
 Bailer _____ Peristaltic Pump 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 Submersible _____ Ded. Pump 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.
 Volume of water removed: 6.5 gal. >3 volumes: yes _____ no purged dry? yes no _____

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>11.63</u>	<u>284</u>	<u>143</u>	<u>9.22</u>	<u>15.68</u>	-	<u>1.48</u>	<u>1.84</u>	<u>43.2</u>
1 Volume	<u>8.54</u>	<u>1.97</u>	<u>118</u>	<u>5.73</u>	<u>14.90</u>	-	<u>1.01</u>	<u>1.28</u>	<u>-81.9</u>
2 Volumes	<u>8.83</u>	<u>1.90</u>	<u>1,200</u>	<u>4.44</u>	<u>14.78</u>	-	<u>0.97</u>	<u>1.23</u>	<u>-146.8</u>
3 Volumes					<u>Dry</u>				

Sampling

Time of Sample Collection: 11:40

Collection Method: Disposable bailer Teflon bailer Dedicated pump Submersible Pump Low-Flow Sampling Other: _____
 Analyses: VOCs - 8260 503.1 _____
 SVOCs _____
 Metals _____
 PCB/Pest _____
 MNA _____
 Other Select Natural Attenuation Parameters

Observations

Weather/Temperature: ±80°F, partly cloudy, calm
 Sample Description: _____
 Free Product? yes _____ no describe _____
 Sheen? yes _____ no describe _____
 Odor? yes _____ no describe _____

Comments:

Field Fezt: 0.0 mg/l
Purge water is a milky color
*Duplicate collected at this location

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-12 (07/06)

WELL ID: MW-12

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 15.96

Time: _____

Static water level (from top of casing) 5.62

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

Airlift Low-Flow Pump

2 in. well: 16.34 ft. of water x 0.16 =

1.65 gal. x 3 = 4.96 gal.

Bailer Peristaltic Pump

3 in. well: _____ ft. of water x 0.36 =

_____ gal. x 3 = _____ gal.

Submersible Ded. Pump

4 in. well: _____ ft. of water x 0.65 =

_____ gal. x 3 = _____ gal.

6 in. well: _____ ft. of water x 1.47 =

_____ gal. x 3 = _____ gal.

Volume of water removed:

50 gal.

>3 volumes: yes no

purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.95</u>	<u>1.88</u>	<u>15.2</u>	<u>4.39</u>	<u>20.97</u>	-	<u>0.95</u>	<u>1.22</u>	<u>171.6</u>
1 Volume	<u>6.85</u>	<u>1.89</u>	<u>100.2</u>	<u>3.54</u>	<u>19.93</u>	-	<u>0.97</u>	<u>1.23</u>	<u>167.9</u>
2 Volumes	<u>6.91</u>	<u>1.88</u>	<u>102.9</u>	<u>3.64</u>	<u>18.61</u>	-	<u>0.96</u>	<u>1.23</u>	<u>157.9</u>
3 Volumes	<u>6.97</u>	<u>1.77</u>	<u>140.0</u>	<u>4.46</u>	<u>18.18</u>	-	<u>0.96</u>	<u>1.22</u>	<u>126.3</u>

Sampling

Time of Sample Collection: 13:10

Collection Method:

Analyses:

Analytical Method:

Disposable bailer

VOCs -

8260 503.1

Other _____

Teflon bailer

SVOCs

Dedicated pump

Metals

Submersible Pump

PCB/Pest

Low-Flow Sampling

MNA

Other: _____

Other

Select Natural Attenuation Parameters

Observations

Weather/Temperature: ±80°F, overcast, calm

Sample Description: _____

Free Product? yes no describe _____

Sheen? yes no describe _____

Odor? yes no describe _____

Comments:

Field Fezt: 0.0 mg/l

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-13 (07/06)

WELL ID: MW-13

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 16.38

Time: _____

Static water level (from top of casing) 5.60

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

Well Volume Calculation:

1 volume 3 volumes

- Airlift Low-Flow Pump
 Bailer Peristaltic Pump
 Submersible Ded. Pump

2 in. well: 16.78 ft. of water x 0.16 =
 3 in. well: _____ ft. of water x 0.36 =
 4 in. well: _____ ft. of water x 0.65 =
 6 in. well: _____ ft. of water x 1.47 =

1.72 gal. x 3 = 5.2 gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.

Volume of water removed:

5.5 gal.

>3 volumes: yes no

purged dry? yes no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>6.41</u>	<u>3.08</u>	<u>5.90</u>	<u>3.20</u>	<u>18.59</u>	-	<u>1.61</u>	<u>2.00</u>	<u>-7.0</u>
1 Volume	<u>6.46</u>	<u>3.31</u>	<u>36.8</u>	<u>4.99</u>	<u>17.88</u>	-	<u>1.74</u>	<u>2.15</u>	<u>-12.7</u>
2 Volumes	<u>6.44</u>	<u>3.22</u>	<u>182</u>	<u>4.57</u>	<u>17.38</u>	-	<u>1.69</u>	<u>2.09</u>	<u>-38.5</u>
3 Volumes	<u>6.38</u>	<u>3.27</u>	<u>158</u>	<u>4.57</u>	<u>17.08</u>	-	<u>1.73</u>	<u>2.13</u>	<u>-26.4</u>

Sampling

Time of Sample Collection: 13:40

Collection Method:

Analyses:

Analytical Method:

- Disposable bailer
 Teflon bailer
 Dedicated pump
 Submersible Pump
 Low-Flow Sampling
 Other: _____

- VOCs -
 SVOCs
 Metals
 PCB/Pest
 MNA
 Other Select Natural Attenuation Parameters

- 8260 503.1 _____ Other _____

Observations

Weather/Temperature: ±80°F, rain, calm

Sample Description: slight odor

Free Product? yes no describe _____

Sheen? yes no describe _____

Odor? yes no describe "solvent" like odor (slight)

Comments:

Field Fezt: 0.7 mg/l

Purge water has a sheen and strong "solvent" like odor

GROUND WATER SAMPLING RECORD

SITE Groif Bros.

DATE 10-11 July 2006

PROJECT NUMBER: 0019800

SAMPLE ID: Groif-MW-14 (07/06)

WELL ID: MW-14

Time Onsite:

Time Offsite:

SAMPLERS: R. Sents

7/10 07:30

21:15

C. Wunderlich

7/11 08:00

15:30

Depth of well (from top of casing) 16.63

Time: _____

Static water level (from top of casing) 10.05

Time: _____

Water level after purging (from top of casing)

Time: _____

Water level before sampling (from top of casing)

Time: _____

Purging Method:

- Airlift
- Bailer
- Submersible
- Low-Flow Pump
- Peristaltic Pump
- Ded. Pump

Well Volume Calculation:

2 in. well: 6.58 ft. of water x 0.16 = 1.05 gal. x 3 = 3.15 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

3.5 gal.

>3 volumes: yes no _____ purged dry? yes _____ no

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial	<u>7.47</u>	<u>1.34</u>	<u>11.0</u>	<u>3.68</u>	<u>18.44</u>	-	<u>0.68</u>	<u>0.87</u>	<u>46.6</u>
1 Volume	<u>7.30</u>	<u>1.30</u>	<u>113</u>	<u>4.62</u>	<u>18.37</u>	-	<u>0.69</u>	<u>0.89</u>	<u>40.9</u>
2 Volumes	<u>7.16</u>	<u>1.34</u>	<u>178</u>	<u>4.30</u>	<u>18.17</u>	-	<u>0.67</u>	<u>0.88</u>	<u>-29.8</u>
3 Volumes	<u>7.30</u>	<u>1.81</u>	<u>303</u>	<u>6.92</u>	<u>18.14</u>	-	<u>0.67</u>	<u>0.89</u>	<u>-42.1</u>

Sampling

Time of Sample Collection: 14:10

Collection Method:

- Disposable bailer
- Teflon bailer
- Dedicated pump
- Submersible Pump
- Low-Flow Sampling
- Other: _____

Analyses:

- VOCs -
- SVOCs
- Metals
- PCB/Pest
- MNA
- Other

Analytical Method:

8260 503.1 _____ Other _____
Select Natural Attenuation Parameters

Observations

Weather/Temperature: ±80°F, rain, calm

Sample Description: slight "solvent" like odor

- Free Product? yes _____ no describe _____
- Sheen? yes _____ no describe _____
- Odor? yes no _____ describe _____

Comments:

Field Fezt: 0.2 mg/l

ATTACHMENT F
JULY 2006 LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

Job#: A06-7828

STL Project#: NY1A8821

Site Name: ERM - GREIF BROTHERS

Task: ERM GREIF BROS. AQUEOUS SAMPLING

Mr. Jon Fox
ERM
5788 Widewaters Pkwy
Dewitt, NY 13214

STL Buffalo

Brian J. Fischer
Project Manager

07/28/2006

STL Buffalo Current Certifications

As of 4/10//2006

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA, ASP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A6782801	GREIF-DUP (07/06)	WATER	07/11/2006		07/11/2006	15:25
A6782807	GREIF-MW-12 (07/06)	WATER	07/11/2006	13:10	07/11/2006	15:25
A6782808	GREIF-MW-13 (07/06)	WATER	07/11/2006	13:40	07/11/2006	15:25
A6782810	GREIF-MW-14 (07/06)	WATER	07/11/2006	14:10	07/11/2006	15:25
A6782806	GREIF-MW-18 (07/06)	WATER	07/11/2006	11:40	07/11/2006	15:25
A6782805	GREIF-MW-21I (07/06)	WATER	07/11/2006	10:25	07/11/2006	15:25
A6782804	GREIF-MW-21S (07/06)	WATER	07/11/2006	10:10	07/11/2006	15:25
A6782809	GREIF-MW-22 (07/06)	WATER	07/11/2006	13:50	07/11/2006	15:25
A6782803	GREIF-MW-24 (07/06)	WATER	07/11/2006	08:50	07/11/2006	15:25
A6782802	GREIF-MW-25 (07/06)	WATER	07/11/2006	09:20	07/11/2006	15:25
A6782802MS	GREIF-MW-25 (07/06)	WATER	07/11/2006	09:20	07/11/2006	15:25
A6782802SD	GREIF-MW-25 (07/06)	WATER	07/11/2006	09:20	07/11/2006	15:25
A6782811	TRIP BLANK	WATER	07/11/2006		07/11/2006	15:25

METHODS SUMMARY

Job#: A06-7828STL Project#: NY1A8821Site Name: ERM - GREIF BROTHERS

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - SELECT VOLATILE ORGANICS	SW8463 8260
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE	OTHER RSK175
Bicarbonate Alkalinity	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1
Hydroxyl Alkalinity	MCAWW 310.1
Nitrate	MCAWW 353.2
Soluble Organic Carbon	SW8463 9060
Sulfate	MCAWW 375.4
Sulfide	MCAWW 376.1
Total Alkalinity	MCAWW 310.1
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
OTHER	Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A06-7828STL Project#: NY1A8821Site Name: ERM - GREIF BROTHERSGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-7828

Sample Cooler(s) were received at the following temperature(s); 3@4.6 °C

Samples for parameter DOC were not filtered in the field. These samples were filtered in Sample Control using 0.45 um paper and poured into 1, 40 ml vial per each, pre-preserved with hcl.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

The relative percent difference between the Matrix Spike and the Matrix Spike Duplicate exceed quality control limits for Methane.

For method RSK, the recoveries of Methane in sample GREIF-MW-25(07/06) Matrix Spike and Matrix Spike Duplicate exceeded QC limits. The Matrix Spike Blank recoveries are compliant.

Wet Chemistry Data

The requested reporting limits for Carbonate and Hydroxyl Alkalinity are below STL's standard reporting limits. It must be noted that results reported below STL's standard reporting limit may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations. Therefore, no corrective actions have been taken for any detections between the requested reporting limits and STL's standard reporting limits.

The recovery of sample GREIF-MW-25(07/06) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Hardness as CaCO₃. Sample matrix is suspect. However, the LCS was acceptable.

The recovery of sample W-11 Matrix Spike exhibited results below the quality control limits for Sulfate. The recovery of sample W-11 Matrix Spike Duplicate exhibited results below the quality control limits for Sulfate. However, the LCS was acceptable.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

Date

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
GREIF-DUP(07/06)	A6782801	8260	20.00	008
GREIF-DUP(07/06)	A6782801	Sulfate	20.00	008
GREIF-MW-25(07/06)	A6782802	Sulfate	5.00	008
GREIF-MW-25(07/06)	A6782802	Total Hardness	5.00	008
GREIF-MW-25(07/06)	A6782802MS	Sulfate	5.00	008
GREIF-MW-25(07/06)	A6782802MS	Total Hardness	5.00	008
GREIF-MW-25(07/06)	A6782802SD	Sulfate	5.00	008
GREIF-MW-25(07/06)	A6782802SD	Total Hardness	5.00	008
GREIF-MW-24(07/06)	A6782803	8260	80.00	008
GREIF-MW-24(07/06)	A6782803	RSK175	20.00	008
GREIF-MW-24(07/06)	A6782803	Sulfate	50.00	008
GREIF-MW-24(07/06)	A6782803	Total Hardness	5.00	008
GREIF-MW-24(07/06)	A6782803DL	8260	200.00	008
GREIF-MW-21S(07/06)	A6782804	Sulfate	5.00	008
GREIF-MW-21I(07/06)	A6782805	Sulfate	5.00	008
GREIF-MW-18(07/06)	A6782806	8260	20.00	008
GREIF-MW-18(07/06)	A6782806	Sulfate	20.00	008
GREIF-MW-12(07/06)	A6782807	8260	40.00	008
GREIF-MW-12(07/06)	A6782807	Sulfate	7.00	008
GREIF-MW-13(07/06)	A6782808	8260	800.00	008
GREIF-MW-13(07/06)	A6782808	RSK175	40.00	008
GREIF-MW-13(07/06)	A6782808	Sulfate	6.00	008
GREIF-MW-13(07/06)	A6782808	Total Hardness	5.00	008
GREIF-MW-22(07/06)	A6782809	Sulfate	15.00	008
GREIF-MW-14(07/06)	A6782810	8260	800.00	008
GREIF-MW-14(07/06)	A6782810	Sulfate	5.00	008
GREIF-MW-14(07/06)	A6782810MS	Sulfate	5.00	008

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No	A06-7828		ND	100	ND	200	ND	4000	ND	4000
Sample Date	07/11/2006		ND	20	ND	40	ND	800	ND	800
Analyte		UG/L	ND	100	ND	200	ND	4000	ND	4000
Acetone		UG/L	ND	20	ND	40	ND	800	ND	800
Benzene		UG/L	ND	100	ND	200	ND	4000	ND	4000
2-Butanone		UG/L	22	20	ND	40	ND	800	ND	800
Chloroethane		UG/L	ND	20	ND	40	ND	800	ND	800
Chloroform		UG/L	1500	20	ND	40	ND	800	ND	800
1,1-Dichloroethane		UG/L	ND	20	2600	40	9600	800	2500	800
1,2-Dichloroethane		UG/L	160	20	ND	40	ND	800	ND	800
1,1-Dichloroethene		UG/L	300	20	520	40	16000	800	1400	800
cis-1,2-Dichloroethene		UG/L	ND	20	3200	40	10000	800	ND	800
trans-1,2-Dichloroethene		UG/L	17 J	20	61	40	420 J	800	ND	800
Ethylbenzene		UG/L	15 J	20	54	40	510 J	800	ND	800
Methylene chloride		UG/L	ND	20	ND	40	ND	800	470 J	800
4-Methyl-2-pentanone		UG/L	ND	100	ND	200	ND	4000	ND	4000
Tetrachloroethene		UG/L	ND	20	ND	40	ND	800	ND	800
Toluene		UG/L	ND	20	ND	40	ND	800	ND	800
1,1,1-Trichloroethane		UG/L	200	20	660	40	41000	800	ND	800
1,1,2-Trichloroethane		UG/L	ND	20	ND	40	ND	800	ND	800
Trichloroethene		UG/L	130	20	640	40	61000	800	45000	800
1,2,4-Trimethylbenzene		UG/L	14 J	20	ND	40	ND	800	ND	800
Vinyl chloride		UG/L	110	20	56	40	ND	800	ND	800
Total Xylenes		UG/L	54 J	60	ND	120	ND	2400	ND	2400
IS/SURROGATE(S)										
Chlorobenzene-D5		%	93	50-200	89	50-200	89	50-200	87	50-200
1,4-Difluorobenzene		%	95	50-200	88	50-200	88	50-200	86	50-200
1,4-Dichlorobenzene-D4		%	83	50-200	81	50-200	80	50-200	79	50-200
Toluene-D8		%	91	76-122	91	76-122	91	76-122	91	76-122
p-Bromofluorobenzene		%	86	73-120	87	73-120	85	73-120	86	73-120
1,2-Dichloroethane-D4		%	97	72-143	94	72-143	94	72-143	96	72-143

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ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
METHOD 8260 - SELECT VOLATILE ORGANICS

Rept: AN0326

Client ID	Lab ID	Units	Sample Value	Reporting Limit	GREIF-MW-18(07/06) A06-7828 07/11/2006	Sample Value	Reporting Limit	GREIF-MW-211(07/06) A06-7828 07/11/2006	Sample Value	Reporting Limit	GREIF-MW-21S(07/06) A06-7828 07/11/2006	Sample Value	Reporting Limit	GREIF-MW-22(07/06) A06-7828 07/11/2006
Analyte														
Acetone		UG/L	ND	100		ND	5.0		ND	5.0		ND	5.0	
Benzene		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
2-Butanone		UG/L	ND	100		ND	5.0		ND	5.0		ND	5.0	
Chloroethane		UG/L	17 J	20		ND	1.0		ND	1.0		ND	1.0	
Chloroform		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
1,1-Dichloroethane		UG/L	1200	20		ND	1.0		ND	1.0		1.6	1.0	
1,2-Dichloroethane		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
1,1-Dichloroethene		UG/L	120	20		ND	1.0		ND	1.0		ND	1.0	
cis-1,2-Dichloroethene		UG/L	240	20		ND	1.0		ND	1.0		0.41 J	1.0	
trans-1,2-Dichloroethene		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
Ethylbenzene		UG/L	14 J	20		ND	1.0		ND	1.0		ND	1.0	
Methylene chloride		UG/L	15 J	20		ND	1.0		ND	1.0		ND	1.0	
4-Methyl-2-pentanone		UG/L	ND	100		ND	5.0		ND	5.0		ND	5.0	
Tetrachloroethene		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
Toluene		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
1,1,1-Trichloroethane		UG/L	160	20		ND	1.0		ND	1.0		3.0	1.0	
1,1,2-Trichloroethane		UG/L	ND	20		ND	1.0		ND	1.0		ND	1.0	
Trichloroethene		UG/L	110	20		ND	1.0		ND	1.0		0.91 J	1.0	
1,2,4-Trimethylbenzene		UG/L	12 J	20		ND	1.0		ND	1.0		ND	1.0	
Vinyl chloride		UG/L	80	20		ND	1.0		ND	1.0		ND	1.0	
Total Xylenes		UG/L	42 J	60		ND	3.0		ND	3.0		ND	3.0	
<u>IS/SURROGATE(S)</u>														
Chlorobenzene-D5		%	92	50-200		90	50-200		93	50-200		88	50-200	
1,4-Difluorobenzene		%	93	50-200		90	50-200		94	50-200		86	50-200	
1,4-Dichlorobenzene-D4		%	81	50-200		83	50-200		83	50-200		78	50-200	
Toluene-D8		%	91	76-122		92	76-122		92	76-122		90	76-122	
p-Bromofluorobenzene		%	85	73-120		87	73-120		86	73-120		85	73-120	
1,2-Dichloroethane-D4		%	98	72-143		92	72-143		97	72-143		95	72-143	

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ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
METHOD 8260 - SELECT VOLATILE ORGANICS

Rept: AN0326

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Job No	GREIF-MW-24(07/06)		A06-7828	A6782803	A06-7828	A6782803DL	A06-7828	A6782802	A06-7828	A6782802	
Sample Date	07/11/2006		07/11/2006	07/11/2006	07/11/2006	07/11/2006	07/11/2006	07/11/2006	07/11/2006	07/11/2006	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	400	ND	1000	ND	1000	ND	5.0	NA	NA
Benzene	UG/L	80	80	ND	200	1.1	200	ND	1.0	NA	NA
2-Butanone	UG/L	ND	400	ND	1000	ND	1000	ND	5.0	NA	NA
Chloroethane	UG/L	ND	80	ND	200	0.40 J	200	ND	1.0	NA	NA
Chloroform	UG/L	ND	80	ND	200	ND	200	ND	1.0	NA	NA
1,1-Dichloroethane	UG/L	58 J	80	ND	200	7.8	200	ND	1.0	NA	NA
1,2-Dichloroethane	UG/L	ND	80	ND	200	ND	200	ND	1.0	NA	NA
1,1-Dichloroethene	UG/L	ND	80	ND	200	0.95 J	200	ND	1.0	NA	NA
cis-1,2-Dichloroethene	UG/L	5600	80	5400 D	200	18	200	ND	1.0	NA	NA
trans-1,2-Dichloroethene	UG/L	37 J	80	ND	200	0.99 J	200	ND	1.0	NA	NA
Ethylbenzene	UG/L	ND	80	ND	200	ND	200	ND	1.0	NA	NA
Methylene chloride	UG/L	48 J	80	160 DJ	200	ND	200	ND	1.0	NA	NA
4-Methyl-2-pentanone	UG/L	ND	400	ND	1000	ND	1000	ND	5.0	NA	NA
Tetrachloroethene	UG/L	ND	80	ND	200	ND	200	ND	1.0	NA	NA
Toluene	UG/L	36 J	80	ND	200	ND	200	ND	1.0	NA	NA
1,1,1-Trichloroethane	UG/L	ND	80	ND	200	9.5	200	ND	1.0	NA	NA
1,1,2-Trichloroethane	UG/L	ND	80	ND	200	ND	200	ND	1.0	NA	NA
Trichloroethene	UG/L	10000 E	80	10000 D	200	ND	200	ND	1.0	NA	NA
1,2,4-Trimethylbenzene	UG/L	ND	80	ND	200	3.1	200	ND	1.0	NA	NA
Vinyl chloride	UG/L	110	80	110 DJ	200	ND	200	ND	1.0	NA	NA
Total xylenes	UG/L	ND	240	ND	600	0.58 J	600	ND	1.0	NA	NA
IS/SURROGATE(S)											
Chlorobenzene-D5	%	93	50-200	92	50-200	93	50-200	93	50-200	NA	NA
1,4-Difluorobenzene	%	93	50-200	94	50-200	94	50-200	94	50-200	NA	NA
1,4-Dichlorobenzene-D4	%	85	50-200	80	50-200	86	50-200	86	50-200	NA	NA
Toluene-D8	%	90	76-122	91	76-122	90	76-122	90	76-122	NA	NA
p-Bromofluorobenzene	%	86	73-120	84	73-120	87	73-120	87	73-120	NA	NA
1,2-Dichloroethane-D4	%	91	72-143	97	72-143	91	72-143	91	72-143	NA	NA

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ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
DISSOLVED GASES - ETHANE, ETHENE, AND METHANE

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No								
Sample Date								
Ethane		UG/L	ND	1.5	ND	1.5	ND	1.5
Ethene		UG/L	ND	1.5	ND	1.5	ND	1.5
Methane		UG/L	ND	1.0	3.1	1.0	220	40

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No								
Sample Date								
Ethane		UG/L	ND	1.5	ND	1.5	ND	1.5
Ethene		UG/L	ND	1.5	ND	1.5	ND	1.5
Methane		UG/L	ND	1.0	1.2	1.0	ND	1.0

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No								
Sample Date								
Ethane		UG/L	ND	30	ND	1.5	NA	
Ethene		UG/L	ND	30	ND	1.5	NA	
Methane		UG/L	100	20	5.5	1.0	NA	

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ERM - GREIF BROS.
ERM GREIF BROS. AQUEOUS SAMPLING
ERM - ALKALINITY GROUP

Rept: AN0326

Client ID	Lab ID	GREIF-DUP(07/06) A06-7828 07/11/2006	GREIF-MW-12(07/06) A06-7828 07/11/2006	GREIF-MW-13(07/06) A06-7828 07/11/2006	GREIF-MW-14(07/06) A06-7828 07/11/2006
Job No	Sample Date	A6782801	A6782807	A6782808	A6782810
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Bicarbonate Alkalinity	MG/L	401	5.0	682	606
Carbonate Alkalinity	MG/L	ND	5.0	ND	ND
Hydroxyl Alkalinity	MG/L	ND	0.79	ND	ND

Client ID	Lab ID	GREIF-MW-18(07/06) A06-7828 07/11/2006	GREIF-MW-21I(07/06) A06-7828 07/11/2006	GREIF-MW-21s(07/06) A06-7828 07/11/2006	GREIF-MW-22(07/06) A06-7828 07/11/2006
Job No	Sample Date	A6782806	A6782805	A6782804	A6782809
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Bicarbonate Alkalinity	MG/L	391	5.0	544	417
Carbonate Alkalinity	MG/L	8.6	5.0	ND	ND
Hydroxyl Alkalinity	MG/L	ND	0.79	ND	ND

Client ID	Lab ID	GREIF-MW-24(07/06) A06-7828 07/11/2006	GREIF-MW-25(07/06) A06-7828 07/11/2006
Job No	Sample Date	A6782803	A6782802
Analyte	Units	Sample Value	Reporting Limit
Bicarbonate Alkalinity	MG/L	399	5.0
Carbonate Alkalinity	MG/L	ND	5.0
Hydroxyl Alkalinity	MG/L	ND	0.79

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Client ID	Lab ID	GREIF-DUP(07/06)	GREIF-MW-12(07/06)	GREIF-MW-13(07/06)	GREIF-MW-14(07/06)
Job No	Sample Date	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006
Sample Date	Analyte	Units	Sample Value	Reporting Limit	Sample Value
	Nitrate	MG/L-N	ND	0.050	ND
	Soluble Organic Carbon	MG/L	3.6	1.0	2.6
	Sulfate	MG/L	499	100	112
	Sulfide	MG/L	ND	1.0	ND
	Total Alkalinity	MG/L	415	5.0	603
	Total Dissolved Solids	MG/L	1280	10	774
	Total Hardness	MG/L	634	2.0	583

Client ID	Lab ID	GREIF-MW-18(07/06)	GREIF-MW-21(07/06)	GREIF-MW-21S(07/06)	GREIF-MW-22(07/06)
Job No	Sample Date	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006
Sample Date	Analyte	Units	Sample Value	Reporting Limit	Sample Value
	Nitrate	MG/L-N	ND	0.050	ND
	Soluble Organic Carbon	MG/L	4.7	1.0	1.2
	Sulfate	MG/L	512	100	517
	Sulfide	MG/L	ND	1.0	ND
	Total Alkalinity	MG/L	415	5.0	422
	Total Dissolved Solids	MG/L	1240	10	1180
	Total Hardness	MG/L	734	2.0	724

Client ID	Lab ID	GREIF-MW-24(07/06)	GREIF-MW-25(07/06)	GREIF-MW-25(07/06)	GREIF-MW-25(07/06)
Job No	Sample Date	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006	A06-7828 07/11/2006
Sample Date	Analyte	Units	Sample Value	Reporting Limit	Sample Value
	Nitrate	MG/L-N	ND	0.050	NA
	Soluble Organic Carbon	MG/L	7.4	1.0	NA
	Sulfate	MG/L	1390	250	NA
	Sulfide	MG/L	ND	1.0	NA
	Total Alkalinity	MG/L	401	5.0	NA
	Total Dissolved Solids	MG/L	3030	10	NA
	Total Hardness	MG/L	1780	10	NA