State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 24, 2017

Mr. David Charles
Satellite Receivers, Ltd.
1740 Cofrin Drive, Suite 2
Green Bay, WI 54302

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
University Cleaners – 1608, 1608 University Avenue, Green Bay, Wisconsin
DNR BRRTS Activity #: 02-05-233555

Dear Mr. Charles:

The Department of Natural Resources (DNR) considers the University Cleaners – 1608 case to be closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you. Certain continuing obligations also apply to affected property owners or rights-of-way (ROW) holders. These are identified within each continuing obligation.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The Northeast Region (NER) Closure Committee reviewed the request for closure on December 18, 2015. The DNR Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. An email request for modifications to the submitted Case Closure – GIS Registry, Form 4400-202 was issued by the DNR on January 13, 2016, and documentation that the conditions in that email were met was received on January 4, 2017.

This former drycleaner site has soil and groundwater contaminated with chlorinated volatile organic compounds. Site investigation activities were completed to define the degree and extent of soil and groundwater contamination. Remedial actions at the site consisted of the removal of the former building and excavation/disposal of contaminated soil. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present at or above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.
- Remaining contamination could result in vapor intrusion if future construction activities occur. Future construction includes expansion or partial removal of current buildings as well as construction of new buildings. Vapor control technologies will be required for occupied buildings, unless the property owner assesses the potential for vapor intrusion, and the DNR agrees that vapor control technologies are not needed.

The DNR fact sheet "Continuing Obligations for Environmental Protection," RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at http://dnr.wi.gov/topic/Brownfields/clean.html, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

All site information is also on file at the NER DNR office located at 2984 Shawano Avenue, Green Bay, Wisconsin. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement is required, as shown on the attached map (Figure D.2. Location Map, December 19, 2016), unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure; and
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, the current property owner, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
2984 Shawano Avenue
Green Bay, WI 54313-6727

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present both on this contaminated property and within the Elizabeth Street and University Avenue ROWs, as shown on the attached map (Figure B.3.b. Groundwater Isoconcentration, October 21, 2016). If you intend to construct a new well, or reconstruct an

existing well, you'll need prior DNR approval. Affected ROW holders were notified of the presence of groundwater contamination. This continuing obligation also applies to the ROW holders for Elizabeth Street and University Avenue.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains on this contaminated property and within the Elizabeth Street ROW as indicated on the attached map (Figure B.2.b. Residual Soil Contamination, October 10, 2016). If soil in the specific locations described above is excavated in the future, the property owner or ROW holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or ROW holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval. This continuing obligation also applies to the ROW holders for Elizabeth Street.

In addition, all current and future owners and occupants of the property and ROW holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)
The pavement that exists in the location shown on the attached map (Figure D.2., Location Map, December 19, 2016) shall be maintained in compliance with the attached maintenance plan (University Cleaners – 1608, Cap Maintenance Plan, December 2, 2016) in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code.

The cover approved for this closure was designed to be protective for a commercial or industrial use setting. Before using the property for residential purposes, you must notify the DNR at least 45 days before taking an action, to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. Before removing or replacing the cover, you must notify the DNR at least 45 days before taking an action. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation. A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence.

The attached maintenance plan (University Cleaners – 1608, Cap Maintenance Plan, December 2, 2016) and inspection log (DNR form 4400-305) are to be kept up-to-date and at an off-site location. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

Vapor Mitigation or Evaluation (s. 292.12 (2), Wis. Stats., s. NR 726.15, s. NR 727.07, Wis. Adm. Code)
Vapor intrusion is the movement of vapors coming from volatile chemicals in the soil or groundwater, into buildings where people may breathe air contaminated by the vapors. Vapor mitigation systems are used to interrupt the pathway, thereby reducing or preventing vapors from moving into the building.

Future Concern: Chlorinated volatile organic compounds remain in soil and/or groundwater on the 1608 University Avenue property and within the Elizabeth Street and University Avenue ROWs, as shown on the attached map (University Cleaners – 1608, Cap Maintenance Plan, December 2, 2016), at levels that may be of concern for vapor intrusion in the future, depending on construction and occupancy of a building. Currently, there are no buildings or occupancy on the 1608 University Avenue property. Therefore, before a building is constructed, the property owner must notify the DNR at least 45 days before the change. Vapor control technologies are required

for construction of occupied buildings unless the property owner assesses the vapor pathway and DNR agrees that vapor control technologies are not needed.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats., or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Kristin DuFresne at 920-662-5443, or at Kristin.Dufresne@wisconsin.gov.

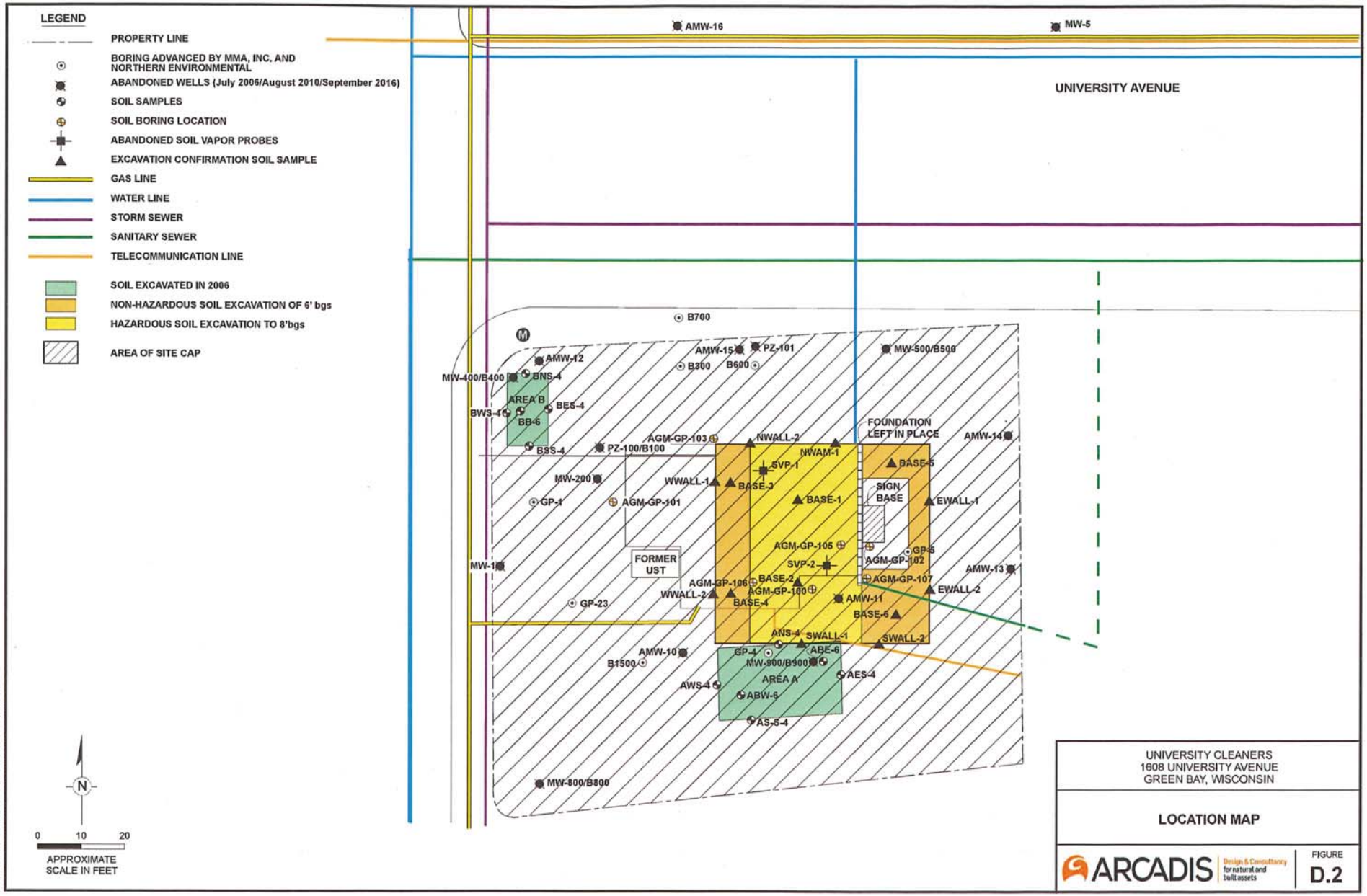
Sincerely,

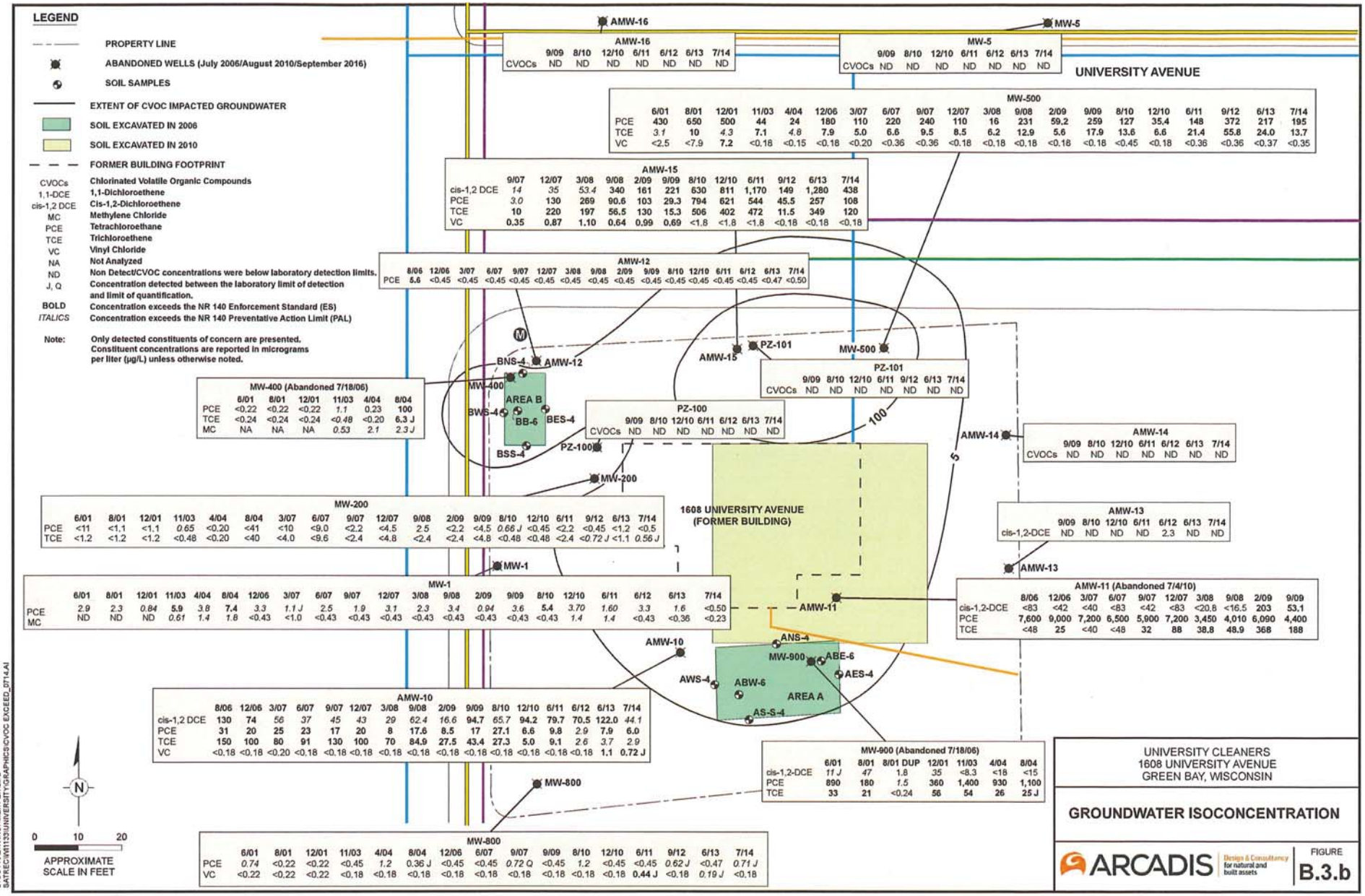
Roxanne N. Chronert
Team Supervisor, Northeast Region
Remediation & Redevelopment Program

Attachments:

- Figure D.2., Location Map, December 19, 2016
- Figure B.3.b, Groundwater Isoconcentration, October 21, 2016
- Figure B.2.b., Residual Soil Contamination, October 10, 2016
- University Cleaners – 1608, Cap Maintenance Plan, December 2, 2016
- Continuing Obligations Inspection and Maintenance Log, Form 4400-305 (2/14)

ec: Chris Kubacki, ARCADIS


LEGEND
PROPERTY LINE
BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
ABANDONED WELLS (July 2006/August 2010/September 2016)
SOIL SAMPLES
SOIL BORING LOCATION
ABANDONED SOIL VAPOR PROBES
EXCAVATION CONFIRMATION SOIL SAMPLE
GAS LINE
WATER LINE
STORM SEWER
SANITARY SEWER
TELECOMMUNICATION LINE
SOIL EXCAVATED IN 2006
NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
HAZARDOUS SOIL EXCAVATION TO 8'bgs
AREA OF SITE CAP
AMW-16
MW-5
UNIVERSITY AVENUE
B700
AMW-15
PZ-101
MW-500/B500
B300
B600
AMW-12
MW-400/B400
BNS-4
AREA B
BES-4
BWS-4
BB-6
BSS-4
PZ-100/B100
AGM-GP-103
NWALL-2
NWAM-1
FOUNDATION LEFT IN PLACE
AMW-14
SVP-1
BASE-5
MW-200
WWALL-1
BASE-3
SIGN BASE
GP-1
AGM-GP-101
BASE-1
EWALL-1
AGM-GP-105
GP-5
FORMER UST
SVP-2
AGM-GP-102
MW-1
AMW-13
AGM-GP-106
BASE-2
AGM-GP-107
WWALL-2
AGM-GP-100
EWALL-2
GP-23
BASE-4
AMW-11
BASE-6
ANS-4
SWALL-1
SWALL-2
AMW-10
GP-4
ABE-6
B1500
MW-900/B900
AES-4
AREA A
AWS-4
ABW-6
AS-5-4
MW-800/B800
N
0
10
20
APPROXIMATE SCALE IN FEET
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN
LOCATION MAP
ARCADIS
Design & Consultancy for natural and built assets
FIGURE
D.2
19DEC16/ENVIRONMENT/CK/JMB
GA:REC\341133\UNIVERSITY\GRAPHICS\CAP LOCATION MAP.AI



AMW-16

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-5

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-500

	6/01	8/01	12/01	11/03	4/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	430	650	500	44	24	180	110	220	240	110	16	231	59.2	259	127	35.4	148	372	217	195
TCE	*3.1*	10	*4.3*	7.1	*4.8*	7.9	5.0	6.6	9.5	8.5	6.2	12.9	5.6	17.9	13.6	6.6	21.4	55.8	24.0	13.7
VC	<2.5	<7.9	7.2	<0.18	<0.15	<0.18	<0.20	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18	<0.36	<0.36	<0.37	<0.35

AMW-15

	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
cis-1,2 DCE	*14*	*35*	*53.4*	340	161	221	630	811	1,170	149	1,280	438
PCE	*3.0*	130	269	90.6	103	29.3	794	621	544	45.5	257	108
TCE	10	220	197	56.5	130	15.3	506	402	472	11.5	349	120
VC	0.35	0.87	1.10	0.64	0.99	0.69	<1.8	<1.8	<1.8	<0.18	<0.18	<0.18

AMW-12

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	5.6	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50

MW-400 (Abandoned 7/18/06)

	6/01	8/01	12/01	11/03	4/04	8/04
PCE	<0.22	<0.22	<0.22	*1.1*	0.23	100
TCE	<0.24	<0.24	<0.24	*<0.48*	<0.20	6.3 J
MC	NA	NA	NA	*0.53*	*2.1*	*2.3 J*

PZ-101

	9/09	8/10	12/10	6/11	9/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

PZ-100

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

AMW-14

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-200

	6/01	8/01	12/01	11/03	4/04	8/04	3/07	6/07	9/07	12/07	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	<11	<1.1	<1.1	*0.65*	<0.20	<41	<10	<9.0	<2.2	<4.5	*2.5*	<2.2	<4.5	*0.66 J*	<0.45	<2.2	<0.45	<1.2	<0.5
TCE	<1.2	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	*<0.72 J*	<1.1	*0.56 J*

AMW-13

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2-DCE	ND	ND	ND	ND	2.3	ND	ND

MW-1

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	*2.9*	*2.3*	*0.84*	5.9	*3.8*	7.4	*3.3*	*1.1 J*	*2.5*	*1.9*	*3.1*	*2.3*	*3.4*	*0.94*	*3.6*	5.4	*3.70*	*1.60*	*3.3*	*1.6*	<0.50
MC	ND	ND	ND	*0.61*	*1.4*	*1.8*	<0.43	<1.0	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	*1.4*	*1.4*	<0.43	<0.36	<0.23

AMW-11 (Abandoned 7/4/10)

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09
cis-1,2-DCE	<83	<42	<40	<83	<42	<83	<20.8	<16.5	203	53.1
PCE	7,600	9,000	7,200	6,500	5,900	7,200	3,450	4,010	6,090	4,400
TCE	<48	25	<40	<48	32	88	38.8	48.9	368	188

AMW-10

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2 DCE	130	74	*56*	*37*	*45*	*43*	*29*	*62.4*	*16.6*	94.7	*65.7*	94.2	79.7	70.5	122.0	*44.1*
PCE	31	20	25	23	17	20	8	17.6	8.5	17	27.1	6.6	9.8	*2.9*	7.9	6.0
TCE	150	100	80	91	130	100	70	84.9	27.5	43.4	27.3	5.0	9.1	*2.6*	*3.7*	*2.9*
VC	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	1.1	0.72 J

MW-900 (Abandoned 7/18/06)

	6/01	8/01	8/01 DUP	12/01	11/03	4/04	8/04
cis-1,2-DCE	*11 J*	*47*	1.8	*35*	<8.3	<18	<15
PCE	890	180	*1.5*	360	1,400	930	1,100
TCE	33	21	<0.24	56	54	26	25 J

MW-800

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	6/07	9/07	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	*0.74*	<0.22	<0.22	<0.45	*1.2*	0.36 J	<0.45	<0.45	*0.72 Q*	<0.45	*1.2*	<0.45	<0.45	*0.62 J*	<0.47	*0.71 J*
VC	<0.22	<0.22	<0.22	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.44 J	<0.18	*0.19 J*	<0.18

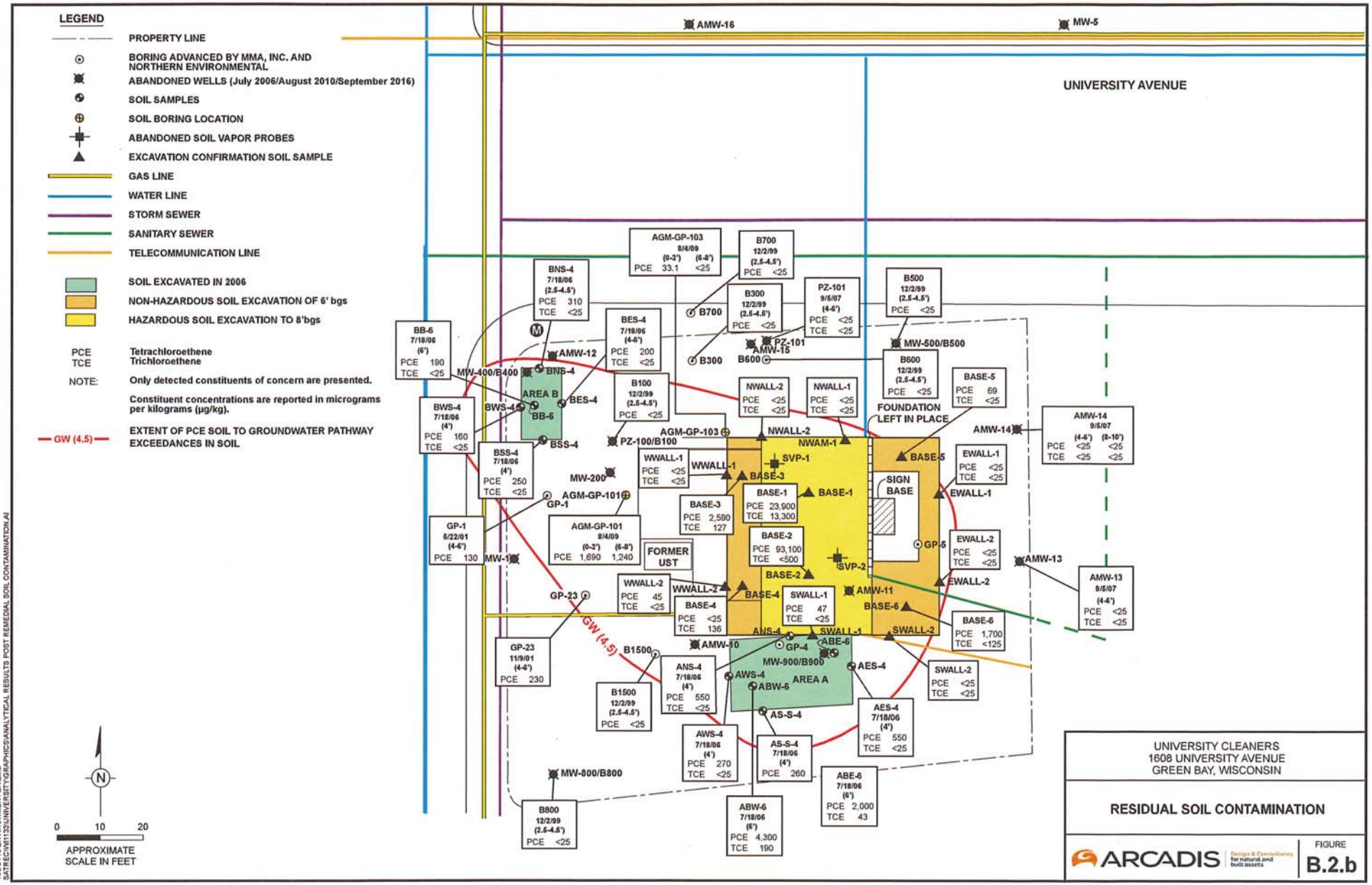
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

GROUNDWATER ISOCONCENTRATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE **B.3.b**

21OCT16\ENVIRONMENT\LR\LMB
SATREC\W\1133\UNIVERSITY\GRAPHICS\CVOC EXCEED_0714.AI


LEGEND
PROPERTY LINE
BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
ABANDONED WELLS (July 2006/August 2010/September 2016)
SOIL SAMPLES
SOIL BORING LOCATION
ABANDONED SOIL VAPOR PROBES
EXCAVATION CONFIRMATION SOIL SAMPLE
GAS LINE
WATER LINE
STORM SEWER
SANITARY SEWER
TELECOMMUNICATION LINE
SOIL EXCAVATED IN 2006
NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
HAZARDOUS SOIL EXCAVATION TO 8'bgs
PCE Tetrachloroethene
TCE Trichloroethene
NOTE: Only detected constituents of concern are presented.
Constituent concentrations are reported in micrograms per kilograms (µg/kg).
GW (4.5) EXTENT OF PCE SOIL TO GROUNDWATER PATHWAY EXCEEDANCES IN SOIL
AMW-16
MW-5
UNIVERSITY AVENUE
AGM-GP-103 8/4/09 (0-2') (6-8') PCE 33.1 <25
B700 12/2/99 (2.5-4.5') PCE <25
BNS-4 7/18/06 (2.5-4.5') PCE 310 TCE <25
B300 12/2/99 (2.5-4.5') PCE <25
PZ-101 9/5/07 (4-6') PCE <25 TCE <25
B500 12/2/99 (2.5-4.5') PCE <25
BB-6 7/18/06 (6') PCE 190 TCE <25
BES-4 7/18/06 (4-6') PCE 200 TCE <25
MW-500/B500
B600 12/2/99 (2.5-4.5') PCE <25
BASE-5 PCE 69 TCE <25
AMW-12
MW-400/B400
BNS-4
AREA B
BB-6
BES-4
B100 12/2/99 (2.5-4.5') PCE <25
NWALL-2 PCE <25 TCE <25
NWALL-1 PCE <25 TCE <25
FOUNDATION LEFT IN PLACE
AMW-14 9/5/07 (4-6') (8-10') PCE <25 <25 TCE <25 <25
BWS-4 7/18/06 (4') PCE 160 TCE <25
BSS-4 7/18/06 (4') PCE 250 TCE <25
BSS-4
PZ-100/B100
AGM-GP-103
NWALL-2
NWAM-1
WWALL-1 PCE <25 TCE <25
WWALL-1
SVP-1
BASE-5
EWALL-1 PCE <25 TCE <25
MW-200
BASE-3
SIGN BASE
AGM-GP-101
GP-1
BASE-1 PCE 23,900 TCE 13,300
BASE-1
EWALL-1
GP-1 5/22/01 (4-6') PCE 130
MW-1
AGM-GP-101 8/4/09 (0-2') (6-8') PCE 1,690 1,240
BASE-3 PCE 2,580 TCE 127
FORMER UST
BASE-2 PCE 93,100 TCE <500
GP-5
EWALL-2 PCE <25 TCE <25
AMW-13
SVP-2
BASE-2
EWALL-2
AMW-13 9/5/07 (4-6') PCE <25 TCE <25
WWALL-2 PCE 45 TCE <25
WWALL-2
GP-23
BASE-4
SWALL-1 PCE 47 TCE <25
AMW-11
BASE-6
BASE-4 PCE <25 TCE 136
BASE-6 PCE 1,700 TCE <125
ANS-4
SWALL-1
SWALL-2
GP-23 11/9/01 (4-6') PCE 230
GW (4.5)
AMW-10
GP-4
ABE-6
B1500
MW-900/B900
ANS-4 7/18/06 (4') PCE 550 TCE <25
AWS-4
AES-4
SWALL-2 PCE <25 TCE <25
AREA A
ABW-6
B1500 12/2/99 (2.5-4.5') PCE <25
AS-S-4
AES-4 7/18/06 (4') PCE 550 TCE <25
AWS-4 7/18/06 (4') PCE 270 TCE <25
AS-S-4 7/18/06 (4') PCE 260
MW-800/B800
ABE-6 7/18/06 (6') PCE 2,000 TCE 43
B800 12/2/99 (2.5-4.5') PCE <25
ABW-6 7/18/06 (6') PCE 4,300 TCE 190
N
0 10 20
APPROXIMATE SCALE IN FEET
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN
RESIDUAL SOIL CONTAMINATION
ARCADIS Design & Consultancy for natural and built assets
FIGURE B.2.b
10CCT16\ENVIRONMENT\LRLMB
SATREC\WI133\UNIVERSITY\GRAPHICS\ANALYTICAL RESULTS POST REMEDIAL SOIL CONTAMINATION.AI

D.1

UNIVERSITY CLEANERS – 1608, CAP MAINTENANCE PLAN

December 2, 2016

Property Located at:

1608 University Avenue, Green Bay, Wisconsin, 54302

DNR BRRTS/Activity # 02-05-233555 & # 03-05-216499, FID # 405095570

Parcel ID: 21-2270-2

D.1 Introduction:

This document is the Maintenance Plan for a cap at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to an existing cap which addresses or occupies the area over contaminated soil and groundwater.

This Maintenance Plan applies to University Cleaners – 1608 (BRRTS # 02-05-233555) and University Cleaners – Former Standard Stn (BRRTS # 03-05-216499) and supersedes the Maintenance Plan associated with the University Cleaners – Former Standard Stn (BRRTS # 03-05-216499) dated February 12, 2003.

More site-specific information about this property/site may be found in:

- The case file in the DNR Green Bay office
- BRRTS on the Web (DNR's internet based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
- RR Sites Map/GIS Registry layer for a map view of the site, and
- The DNR project manager for Brown County.

D.1. Descriptions:

Description of Contamination

This Maintenance Plan applies to petroleum and chlorinated solvent-related volatile organic compounds in soil and groundwater.

Soil:
Concentrations of petroleum and chlorinated solvent-related volatile organic compounds (VOCs) remain in soil at the site at concentrations above the WDNR's soil to groundwater pathway residual contaminant levels (RCLs) and/or above the WDNR's non-industrial direct contact pathway RCLs.

Presently tetrachloroethene (PCE) concentrations ranging from non-detectable to 1,690 micrograms per kilogram (µg/kg) remain in localized areas in the upper 4 feet of soil on site. Below 4 feet, tetrachloroethene concentrations generally range from non-detect to 4,300 µg/kg. The highest remaining concentrations of

tetrachloroethene are present at the base of the main excavation in the central portion of the site at 8 to 10 feet below ground surface (ft bgs), and range from non-detect to 93,100 µg/kg.

Trichloroethene (TCE) is not present in the upper 4 feet of soil, and generally ranges from non-detect to 190 µg/kg below 4 feet. The highest remaining concentrations of trichloroethene are also at the base of the main excavation, and range from non-detect to 13,300 µg/kg. Methylene chloride concentrations ranging from non-detectable to 3,200 µg/kg also are present at the base of the main excavation. The chlorinated VOCs of PCE, TCE, and methylene chloride are addressed under WDNR BRRTS No. 02-05-233555.

Petroleum compounds (benzene [37 µg/kg], naphthalene [1,300 µg/kg] and lead [60 milligrams per kilogram]) are also present at two soil boring locations at depths of 2.5 to 4 ft bgs. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

Groundwater:
Concentrations of petroleum and chlorinated solvent-related VOCs remain in groundwater at the site at concentrations above the WDNR's preventive action limits (PALs) and/or above the WDNR's enforcement standards (ESs).

Groundwater contamination consisting of chlorinated compounds, from prior dry cleaning activities at the site, begin at approximately 6 ft bgs (the depth to groundwater) and extend to approximately 14 ft bgs. Impacted groundwater has not been identified below approximately 14 ft bgs based on data collected from piezometers. Groundwater contamination is highest in the north central portion of the site.

Of the 13 monitoring wells sampled during the latest round of groundwater sampling, 3 monitoring wells contained constituent concentrations above the ES and 3 monitoring wells have constituent concentrations above the PAL. Monitoring Wells MW-200 and MW-800 contained trichloroethene and tetrachloroethene concentrations above the PAL, respectively. Monitoring Well AMW-10 contained concentrations of trichloroethene and cis-1,2-dichloroethane above the PAL.

Monitoring Well AMW-10 also contained concentrations of tetrachloroethene (6 micrograms per liter [µg/L]) and vinyl chloride (0.29 µg/L) above the ES. Monitoring Well AMW-15 contained concentrations of cis-1,2-dichloroethane (438 µg/L), tetrachloroethene (108 µg/L) and trichloroethene (120 µg/L) above the ES, and Monitoring Well MW-500 contained concentrations of tetrachloroethene (195 µg/L) and trichloroethene (13.7 µg/L) above the ES. The chlorinated VOCs are addressed under WDNR BRRTS No. 02-05-233555.

Petroleum compounds are also present in groundwater. Petroleum compounds such as benzene, ethylbenzene, toluene, xylenes, naphthalene, styrene and trimethylbenzenes have been detected in groundwater above the PAL and/or ES at Monitoring Well MW-200. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

Description of the Barrier to be Maintained

1608 University Avenue:
The existing barrier consists of approximately three inches of asphalt across the parcel used as a parking lot.

University Avenue and Elizabeth Street Rights-of-Way (ROWS):
The existing barrier consists of roadway asphalt along University Avenue and Elizabeth Street. Along the ROWs, there are also concrete sidewalks. These areas are to be maintained by the City of Green Bay.

The existing barrier features are shown on Figure D.2. Photographs of the barriers to be maintained are included in D.3.

Barrier Purpose

The cap over the contaminated soil and groundwater serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The cap also acts as an infiltration barrier to minimize future soil-to-groundwater contamination migration that could violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current use of the property the barrier should function as intended unless disturbed.

Annual Inspection

The asphalt and concrete cap overlying the contaminated soil and groundwater as depicted in Figure D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

A copy of the inspection log will be submitted electronically to the DNR upon request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the asphalt and concrete cap overlying the contaminated soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Cap Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the asphalt and concrete cap, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-

site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the property the engineered cap is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings;

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Amendment or Withdrawal of Maintenance Plan

This Cap Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

D.1 Contact Information:

Site Owner and Operator: David Charles
Satellite Receivers, Ltd.
1740 Cofrin Drive, Suite 2, Green Bay, Wisconsin, 54302
(920) 432-5777

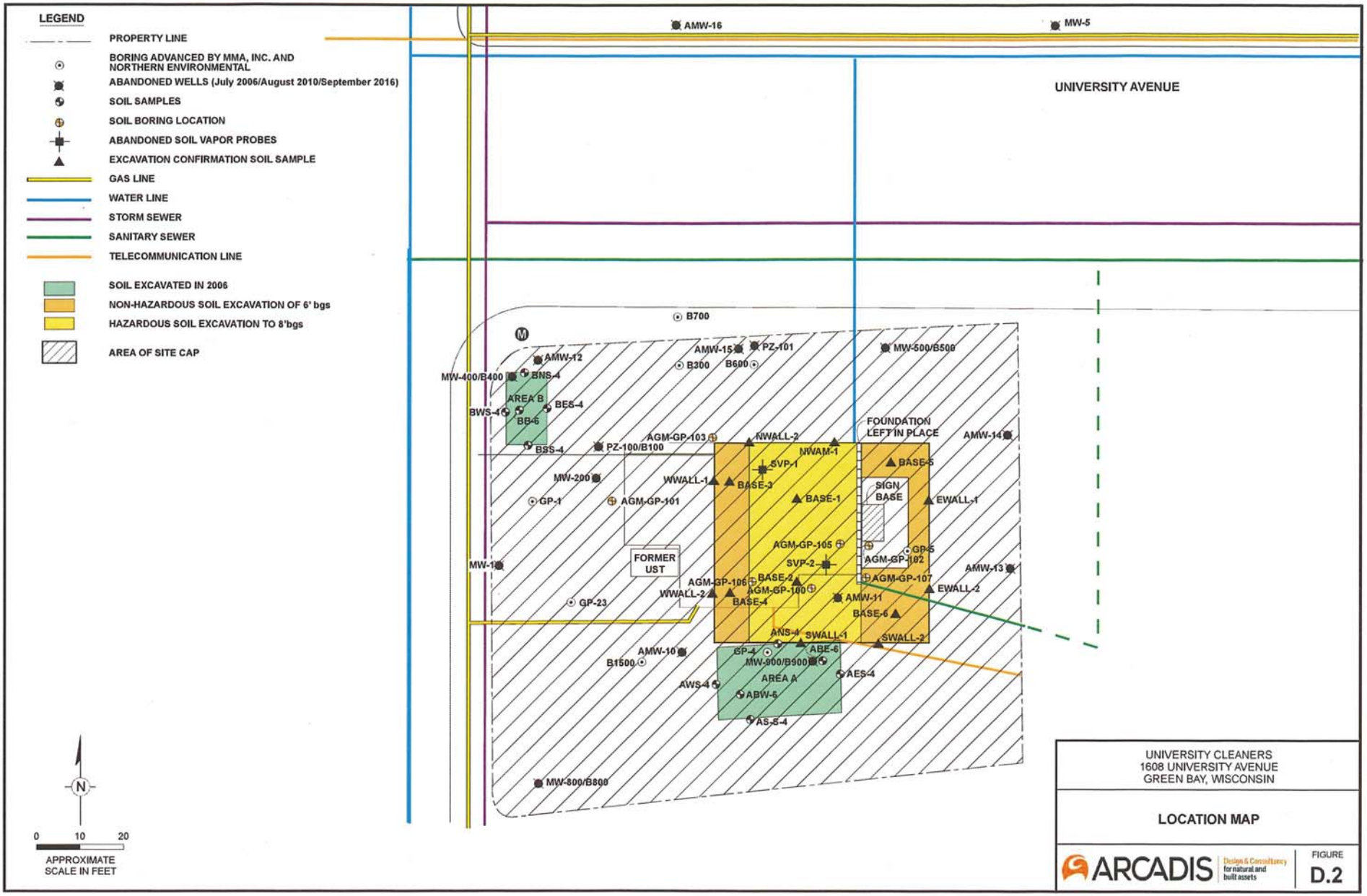
Signature:

(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: David Charles
Satellite Receivers, Ltd.
1740 Cofrin Drive, Suite 2, Green Bay, Wisconsin, 54302
(920) 432-5777

Consultant: Arcadis U.S., Inc.
126 N. Jefferson Street, Suite 400, Milwaukee, WI 53202
414-276-7742

DNR: Ms. Kristin DuFresne
Wisconsin Department of Natural Resources
Green Bay Service Center
2984 Shawano Avenue
Green Bay, Wisconsin 54313-6727
920-662-5443


LEGEND
PROPERTY LINE
BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
ABANDONED WELLS (July 2006/August 2010/September 2016)
SOIL SAMPLES
SOIL BORING LOCATION
ABANDONED SOIL VAPOR PROBES
EXCAVATION CONFIRMATION SOIL SAMPLE
GAS LINE
WATER LINE
STORM SEWER
SANITARY SEWER
TELECOMMUNICATION LINE
SOIL EXCAVATED IN 2006
NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
HAZARDOUS SOIL EXCAVATION TO 8'bgs
AREA OF SITE CAP
AMW-16
MW-5
UNIVERSITY AVENUE
B700
AMW-15
PZ-101
B300
B600
MW-500/B500
AMW-12
MW-400/B400
BNS-4
AREA B
BES-4
BWS-4
BB-6
BSS-4
PZ-100/B100
AGM-GP-103
NWALL-2
NWAM-1
SVP-1
FOUNDATION LEFT IN PLACE
AMW-14
BASE-5
MW-200
WWALL-1
BASE-3
SIGN BASE
GP-1
AGM-GP-101
BASE-1
EWALL-1
AGM-GP-105
GP-5
AGM-GP-102
FORMER UST
SVP-2
MW-1
AGM-GP-106
BASE-2
AGM-GP-107
AMW-13
WWALL-2
AGM-GP-100
EWALL-2
GP-23
BASE-4
AMW-11
BASE-6
ANS-1
SWALL-1
SWALL-2
AMW-10
GP-4
ABE-6
B1500
MW-900/B900
AES-4
AREA A
AWS-4
ABW-6
AS-S-4
MW-800/B800
N
0
10
20
APPROXIMATE SCALE IN FEET
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN
LOCATION MAP
ARCADIS
Design & Consultancy for natural and built assets
FIGURE
D.2
190EC16\ENVIRONMENT\CK\LMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\CAP LOCATION MAP.AI

D.3 Photographs

ARCADIS Design & Consultancy for natural and built assets

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

Photo: 1

Date:
6-28-2012

Description:
North side of Cap

Location:
Facing West

Photo: 2

Date:
6-28-2012

Description:
North side of Cap

Location:
Facing Southwest

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

Photo: 3

Date:
6-28-2012

Description:
West side of Cap

Location:
Facing South

Photo: 4

Date:
6-28-2012

Description:
South side of Cap

Location:
Facing Southeast

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

Photo: 5

Date:
6-28-2012

Description:
East side of Cap

Location:
Facing North

Photo: 6

Date:
6-28-2012

Description:
North side of Cap

.

Location:
Facing North

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

D.4 Inspection Log

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name University Cleaners - 1608	BRRTS No. 02-05-233555
Inspections are required to be conducted (see closure approval letter): ○ annually ○ semi-annually ○ other – specify ______	When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N

Continuing Obligations Inspection and Maintenance Log

{Click to Add/Edit Image} Date added:	{Click to Add/Edit Image} Date added:
Title:	Title:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay WI 54313-6727

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 24, 2017

RIGHT-OF-WAY

Mr. Steve Grenier
100 North Jefferson Street, Room 300
Green Bay, WI 54301

SUBJECT: Notice of Closure Approval with Continuing Obligations for Rights-of-Way Holders for Elizabeth Street and University Avenue, Green Bay, Wisconsin
Final Case Closure for University Cleaners – 1608
1608 University Avenue, Green Bay, Wisconsin
DNR BRRTS Activity #: 02-05-233555

Dear Mr. Grenier:

The Department of Natural Resources (DNR) recently approved the completion of environmental work done at the University Cleaners – 1608 site. This letter describes how that approval applies to the right-of-way (ROW) at Elizabeth Street and University Avenue. As the ROW holder, you are responsible for complying with these continuing obligations for any work you conduct in the ROW.

State law directs parties responsible for environmental contamination to take actions to restore the environment and minimize harmful effects. The law allows some contamination to remain in soil and groundwater if it does not pose a threat to public health, safety, welfare or to the environment.

On March 26, 2015 and October 3, 2016, you received information from David Charles, Satellite Receivers, Ltd., about the chlorinated solvent contamination in the ROW from University Cleaners - 1608, located at 1608 University Avenue, and about the continuing obligations. Continuing obligations are meant to limit exposure to any remaining contamination.

Applicable Continuing Obligations

The continuing obligations that apply to these ROWs are described below, and are consistent with Wis. Stat. § 292.12, and Wis. Admin. § NR 700 series.

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is within the Elizabeth Street and University Avenue ROWs, as shown on the attached map (Figure B.3.b. Groundwater Isoconcentration, October 21, 2016). If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains within the Elizabeth Street ROW as indicated on the attached map (Figure B.2.b. Residual Soil Contamination, October 10, 2016). If soil in the specific locations described above is excavated in the future, the property owner or ROW holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or ROW holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and ROW holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Send all written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
2984 Shawano Avenue
Green Bay, WI 54313-6727

Additional Information

Additional information about this case is available at the DNR's Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do. Enter 0205233555 in the **Activity Number** field in the initial screen, then click on **Search**. Scroll down and click on the **GIS Registry Packet** link for information about the completion of the environmental work. The site may also be seen on the map view, RR Sites Map. RR Sites Map can be found at http://dnr.wi.gov/topic/Brownfields/clean.html.

Please contact Kristin DuFresne, the DNR Project Manager, at 920-662-5443 or Kristin.Dufresne@wisconsin.gov with any questions or concerns.

Sincerely,

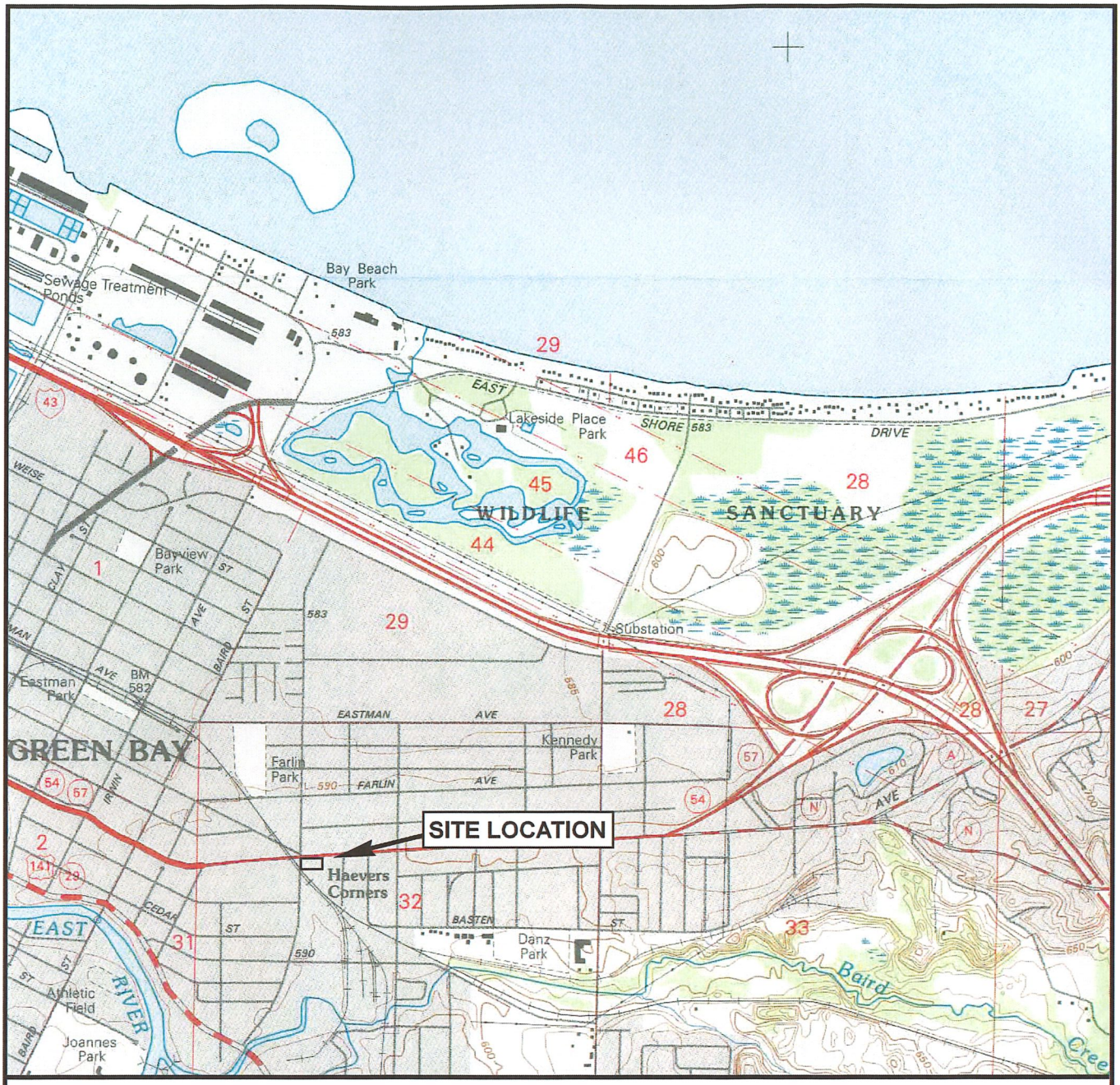
Roxanne N. Chronert
Team Supervisor, Northeast Region
Remediation & Redevelopment Program

Attachments:

- Figure B.1.a., Site Location Map, October 20, 2016
- Figure D.2., Location Map, December 19, 2016
- Figure B.3.b, Groundwater Isoconcentration, October 21, 2016
- Figure B.2.b., Residual Soil Contamination, October 10, 2016

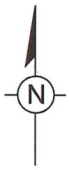
ec: David Charles, Satellite Receivers, Ltd.
Chris Kubacki, ARCADIS

RIGHT-OF-WAY



SOURCE: USGS 7.5 Minute Topographic Map, GREEN BAY EAST, WISCONSIN Quadrangle, 1992

WISCONSIN



0 1000 2000 4000

SCALE IN FEET

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

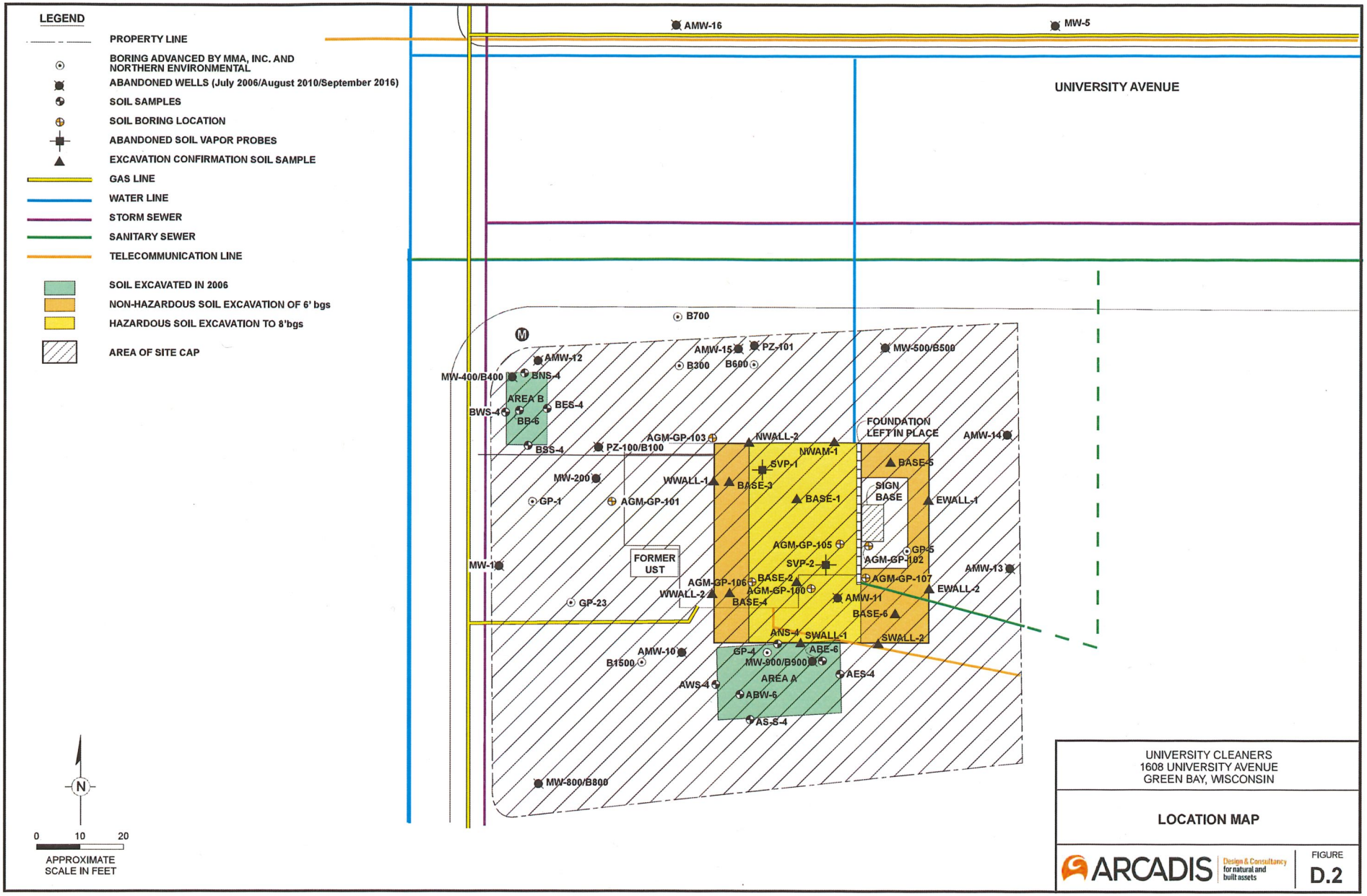
SITE LOCATION MAP

ARCADIS

FIGURE
B.1.a

20OCT11\ENVIRONMENT\ND\LMB
SATRECW\1133\UNIVERSITY\GRAPHICS\SITE LOC.AI

RIGHT-OF-WAY



UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

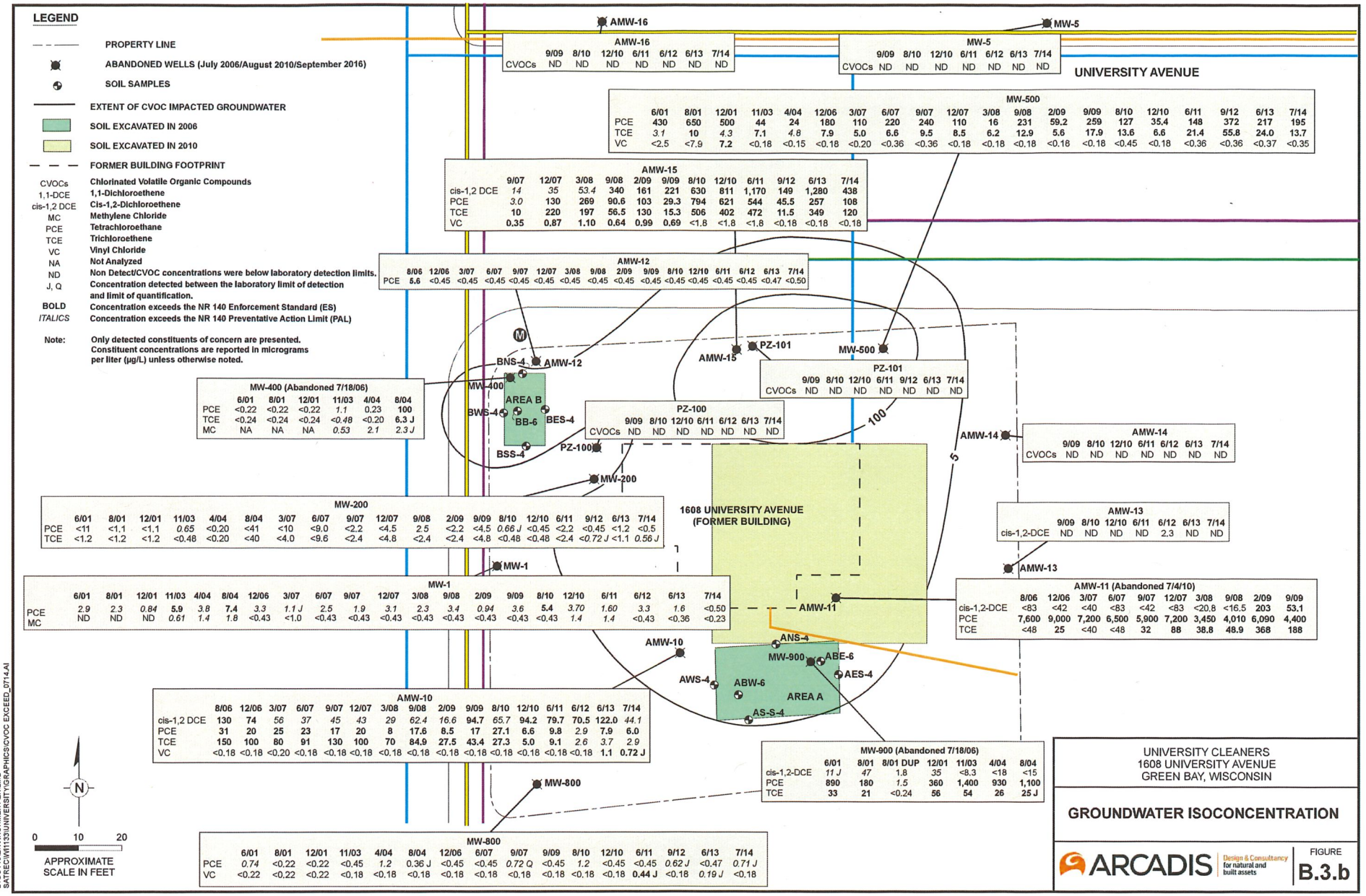
LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
D.2

19DEC16\ENVIRONMENT\CKLMB
SATREC\WI\133\UNIVERSITY\GRAPHICS\CAP LOCATION MAP.AI

RIGHT-OF-WAY



AMW-16

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-5

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-500

	6/01	8/01	12/01	11/03	4/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	430	650	500	44	24	180	110	220	240	110	16	231	59.2	259	127	35.4	148	372	217	195
TCE	*3.1*	10	*4.3*	7.1	*4.8*	7.9	5.0	6.6	9.5	8.5	6.2	12.9	5.6	17.9	13.6	6.6	21.4	55.8	24.0	13.7
VC	<2.5	<7.9	7.2	<0.18	<0.15	<0.18	<0.20	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18	<0.36	<0.36	<0.37	<0.35

AMW-15

	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
cis-1,2 DCE	*14*	*35*	*53.4*	340	161	221	630	811	1,170	149	1,280	438
PCE	*3.0*	130	269	90.6	103	29.3	794	621	544	45.5	257	108
TCE	10	220	197	56.5	130	15.3	506	402	472	11.5	349	120
VC	0.35	0.87	1.10	0.64	0.99	0.69	<1.8	<1.8	<1.8	<0.18	<0.18	<0.18

AMW-12

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	5.6	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50

MW-400 (Abandoned 7/18/06)

	6/01	8/01	12/01	11/03	4/04	8/04
PCE	<0.22	<0.22	<0.22	*1.1*	0.23	100
TCE	<0.24	<0.24	<0.24	*<0.48*	<0.20	6.3 J
MC	NA	NA	NA	*0.53*	*2.1*	*2.3 J*

PZ-101

	9/09	8/10	12/10	6/11	9/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

PZ-100

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

AMW-14

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-200

	6/01	8/01	12/01	11/03	4/04	8/04	3/07	6/07	9/07	12/07	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	<11	<1,1	<1.1	*0.65*	<0.20	<41	<10	<9.0	<2.2	<4.5	*2.5*	<2.2	<4.5	*0.66 J*	<0.45	<2.2	<0.45	<1.2	<0.5
TCE	<1.2	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	*<0.72 J*	<1.1	*0.56 J*

AMW-13

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2-DCE	ND	ND	ND	ND	2.3	ND	ND

MW-1

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	*2.9*	*2.3*	*0.84*	**5.9**	*3.8*	**7.4**	*3.3*	*1.1 J*	*2.5*	*1.9*	*3.1*	*2.3*	*3.4*	*0.94*	*3.6*	5.4	*3.70*	*1.60*	*3.3*	*1.6*	<0.50
MC	ND	ND	ND	*0.61*	*1.4*	*1.8*	<0.43	<1.0	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	*1.4*	*1.4*	<0.43	<0.36	<0.23

AMW-11 (Abandoned 7/4/10)

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09
cis-1,2-DCE	<83	<42	<40	<83	<42	<83	<20.8	<16.5	203	53.1
PCE	7,600	9,000	7,200	6,500	5,900	7,200	3,450	4,010	6,090	4,400
TCE	<48	25	<40	<48	32	88	38.8	48.9	368	188

AMW-10

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2 DCE	**130**	**74**	*56*	*37*	*45*	*43*	*29*	*62.4*	*16.6*	**94.7**	*65.7*	**94.2**	**79.7**	**70.5**	**122.0**	*44.1*
PCE	**31**	**20**	**25**	**23**	**17**	**20**	**8**	**17.6**	**8.5**	**17**	**27.1**	**6.6**	**9.8**	*2.9*	**7.9**	**6.0**
TCE	**150**	**100**	**80**	**91**	**130**	**100**	**70**	**84.9**	**27.5**	**43.4**	**27.3**	**5.0**	**9.1**	*2.6*	*3.7*	*2.9*
VC	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**1.1**	**0.72 J**

MW-900 (Abandoned 7/18/06)

	6/01	8/01	8/01 DUP	12/01	11/03	4/04	8/04
cis-1,2-DCE	*11 J*	*47*	1.8	*35*	<8.3	<18	<15
PCE	**890**	**180**	*1.5*	**360**	**1,400**	**930**	**1,100**
TCE	**33**	**21**	<0.24	**56**	**54**	**26**	**25 J**

MW-800

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	6/07	9/07	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	*0.74*	<0.22	<0.22	<0.45	*1.2*	0.36 J	<0.45	<0.45	*0.72 Q*	<0.45	*1.2*	<0.45	<0.45	*0.62 J*	<0.47	*0.71 J*
VC	<0.22	<0.22	<0.22	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.44 J**	<0.18	*0.19 J*	<0.18

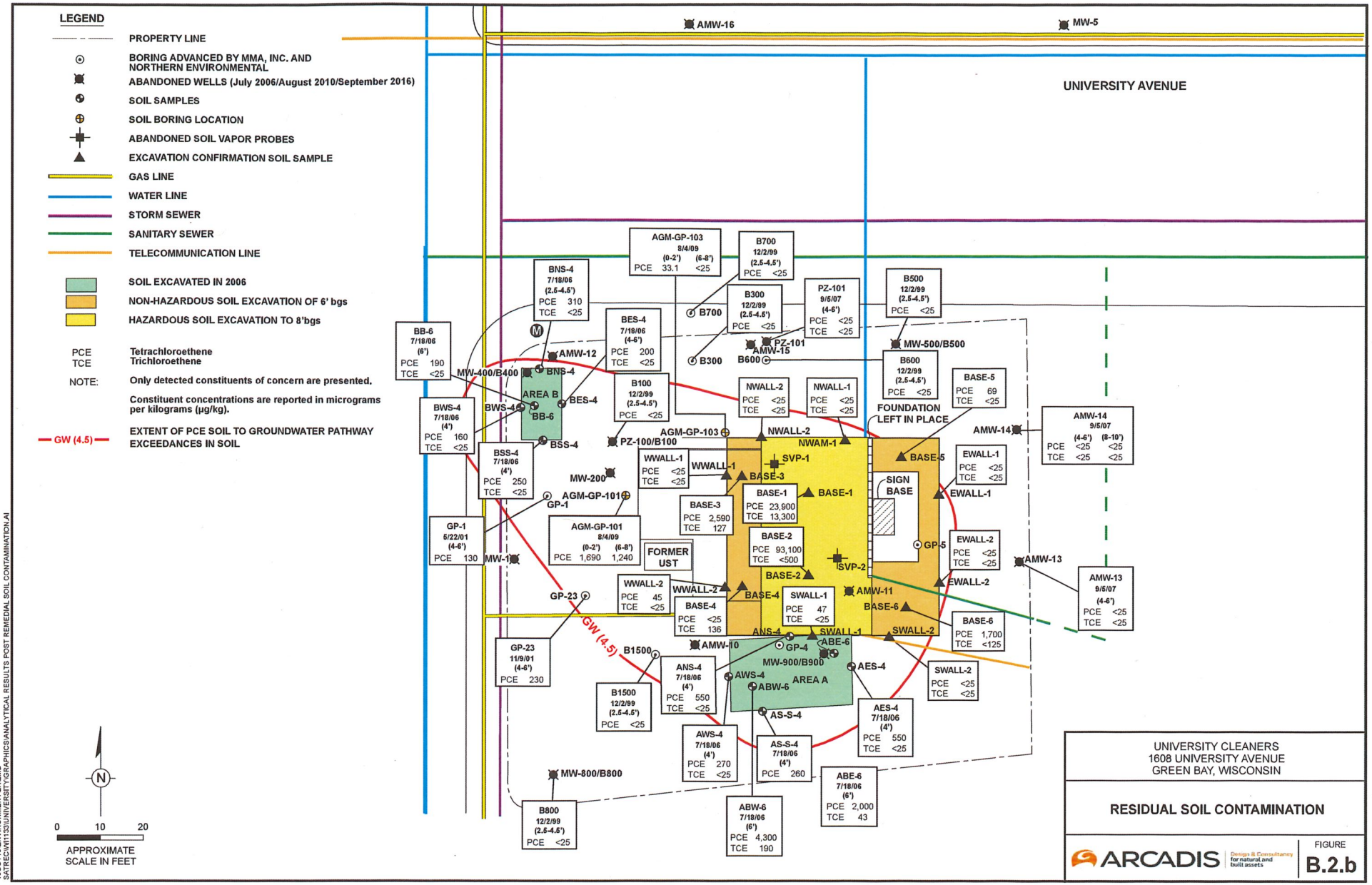
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

GROUNDWATER ISOCONCENTRATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE **B.3.b**

RIGHT-OF-WAY


LEGEND
PROPERTY LINE
BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
ABANDONED WELLS (July 2006/August 2010/September 2016)
SOIL SAMPLES
SOIL BORING LOCATION
ABANDONED SOIL VAPOR PROBES
EXCAVATION CONFIRMATION SOIL SAMPLE
GAS LINE
WATER LINE
STORM SEWER
SANITARY SEWER
TELECOMMUNICATION LINE
SOIL EXCAVATED IN 2006
NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
HAZARDOUS SOIL EXCAVATION TO 8'bgs
PCE Tetrachloroethene
TCE Trichloroethene
NOTE: Only detected constituents of concern are presented.
Constituent concentrations are reported in micrograms per kilograms (µg/kg).
GW (4.5) EXTENT OF PCE SOIL TO GROUNDWATER PATHWAY EXCEEDANCES IN SOIL
UNIVERSITY AVENUE
AMW-16
MW-5
AGM-GP-103 8/4/09 (0-2') (6-8') PCE 33,1 <25
B700 12/2/99 (2.5-4.5') PCE <25
BNS-4 7/18/06 (2.5-4.5') PCE 310 TCE <25
B300 12/2/99 (2.5-4.5') PCE <25
PZ-101 9/5/07 (4-6') PCE <25 TCE <25
B500 12/2/99 (2.5-4.5') PCE <25
BB-6 7/18/06 (6') PCE 190 TCE <25
BES-4 7/18/06 (4-6') PCE 200 TCE <25
MW-500/B500
AMW-12
AMW-15
MW-400/B400
B600 12/2/99 (2.5-4.5') PCE <25
BASE-5 PCE 69 TCE <25
AREA B
B100 12/2/99 (2.5-4.5') PCE <25
NWALL-2 PCE <25 TCE <25
NWALL-1 PCE <25 TCE <25
FOUNDATION LEFT IN PLACE
AMW-14 9/5/07 (4-6') (8-10') PCE <25 <25 TCE <25 <25
BWS-4 7/18/06 (4') PCE 160 TCE <25
BB-6
BES-4
BWS-4
AGM-GP-103
NWALL-2
NWAM-1
PZ-100/B100
BSS-4 7/18/06 (4') PCE 250 TCE <25
BSS-4
WWALL-1 PCE <25 TCE <25
WWALL-1
SVP-1
BASE-5
EWALL-1 PCE <25 TCE <25
MW-200
BASE-3
SIGN BASE
AGM-GP-101
GP-1
BASE-1 PCE 23,900 TCE 13,300
BASE-1
EWALL-1
GP-1 5/22/01 (4-6') PCE 130
MW-1
AGM-GP-101 8/4/09 (0-2') (6-8') PCE 1,690 1,240
BASE-3 PCE 2,590 TCE 127
FORMER UST
BASE-2 PCE 93,100 TCE <500
GP-5
EWALL-2 PCE <25 TCE <25
AMW-13
SVP-2
BASE-2
EWALL-2
AMW-13 9/5/07 (4-6') PCE <25 TCE <25
WWALL-2 PCE 45 TCE <25
WWALL-2
GP-23
BASE-4 PCE <25 TCE 136
BASE-4
SWALL-1 PCE 47 TCE <25
AMW-11
BASE-6
BASE-6 PCE 1,700 TCE <125
ANS-4
SWALL-1
SWALL-2
GP-23 11/9/01 (4-6') PCE 230
GW (4.5)
AMW-10
GP-4
ABE-6
B1500
ANS-4 7/18/06 (4') PCE 550 TCE <25
MW-900/B900
AES-4
SWALL-2 PCE <25 TCE <25
AWS-4
AREA A
ABW-6
B1500 12/2/99 (2.5-4.5') PCE <25
AS-S-4
AES-4 7/18/06 (4') PCE 550 TCE <25
AWS-4 7/18/06 (4') PCE 270 TCE <25
AS-S-4 7/18/06 (4') PCE 260
MW-800/B800
ABE-6 7/18/06 (6') PCE 2,000 TCE 43
B800 12/2/99 (2.5-4.5') PCE <25
ABW-6 7/18/06 (6') PCE 4,300 TCE 190
N
0 10 20
APPROXIMATE SCALE IN FEET
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN
RESIDUAL SOIL CONTAMINATION
ARCADIS Design & Consultancy for natural and built assets
FIGURE
B.2.b
10OCT16\ENVIRONMENT\LR\LMB
SATREC\WI\133\UNIVERSITY\GRAPHICS\ANALYTICAL RESULTS POST REMEDIAL SOIL CONTAMINATION.AI

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information

BRRTS No.	VPLE No.		
02-05-233555			
Parcel ID No.			
21-2270-2			
FID No.	**WTM Coordinates**		
	X	Y	
405095570	680349.0	450716.1	
BRRTS Activity (Site) Name	**WTM Coordinates Represent:**		
University Cleaners - 1608	☐ Source Area	☒ Parcel Center	
Site Address	**City**	**State**	**ZIP Code**
1608 University Avenue	Green Bay	WI	54302
Acres Ready For Use			
0.25			

Responsible Party (RP) Name			
David Charles			
Company Name			
Satellite Receivers, Ltd.			
Mailing Address	**City**	**State**	**ZIP Code**
1740 Cofrin Drive, Suite 2	Green Bay	WI	54302
Phone Number	**Email**		
(920) 432-5777	dcharles@srlcd.com		

☒ Check here if the RP is the owner of the source property.

Environmental Consultant Name			
Christopher Kubacki			
Consulting Firm			
Arcadis U.S., Inc.			
Mailing Address	**City**	**State**	**ZIP Code**
126 N. Jefferson Street, Suite 400	Milwaukee	WI	53202
Phone Number	**Email**		
(414) 276-7742	chris.kubacki@arcadis.com		

Fees and Mailing of Closure Request

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at **http://dnr.wi.gov/topic/Brownfields/Contact.html**. Check all fees that apply:

   ☒ $1,050 Closure Fee

   ☒ $350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)

   ☒ $300 Database Fee for Soil

   Total Amount of Payment $ $1,700.00

   ☐ Resubmittal, Fees Previously Paid

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see **http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf**.

Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.
The Site is located in the SE 1/4 of the NW 1/4 of Sec 32, T24N, R21E in the county of Brown, at 1608 University Avenue in Green Bay, Wisconsin. The Site is approximately 0.25 acre in size and was developed with a building located in the center, with the remainder of the site completed with asphalt and concrete parking lots. The Site is bordered by University Avenue to the north, Elizabeth Street to the west, a residence to the east, and industrial property to the south. The building was demolished in 2010. The Site is currently vacant, unoccupied, and paved. There is a billboard located in the center of the Site.

B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.
A gasoline service station previously occupied the Site. Underground storage tanks (USTs) were located along the southwestern corner of the building, and a dispensing island was located in the northern portion of the Site. The building on the Site was later occupied by a dry cleaner. Dry cleaning was conducted at the Site until approximately November 2000. The building was demolished in 2010. The Site is currently vacant and unoccupied, except for a billboard located in the center of the Site, and used as a parking lot.

C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
Commercial 2. Verified from the Green Bay Zoning Map.

D. Describe how and when site contamination was discovered.
A limited Phase II Environmental Site Assessment (ESA) was completed at the Site in February 1999 by Northern Environmental. The Phase II ESA identified a release associated with dry cleaning operations. The WDNR was notified of the release on March 22, 1999. It is understood that at the time of this release, the dry cleaners was a licensed facility as defined in ch. NR 169, Wis. Adm. Code.

E. Describe the type(s) and source(s) or suspected source(s) of contamination.
Site contamination consisted of chlorinated solvents, primarily tetrachloroethene and trichloroethene, sourced from dry cleaning operations.

F. Other relevant site description information (or enter Not Applicable).
A gasoline service station previously occupied the Site. Underground storage tanks (USTs) were located along the southwestern corner of the building, and a dispensing island was located in the northern portion of the Site. An investigation of potential releases associated with the USTs was completed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003. It is noted that at the time of closure, petroleum constituents remained in the groundwater at concentrations exceeding ch. NR 140, Wis. Adm. Code enforcement standards (ES). According to the WDNR BRRTS web site, the petroleum release at the Site was closed with a deed restriction and cap maintenance plan, and registration on the groundwater Geographical Information System (GIS).

G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
03-05-216499 UNIVERSITY CLEANERS (FORMER STANDARD STATION)
02-05-000203 UNIVERSITY CLEANERS

H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
02-05-321297 UNIVERSITY CLEANERS - 1620
04-05-045892 1545 UNIVERSITY AVE

2. General Site Conditions

A. Soil/Geology

i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
The Site geology generally consists of three units of unconsolidated materials with some variations within each unit. Fill is present from the ground surface to approximately 2.0 feet (ft) below ground surface (bgs) and is underlain by sand and silty sand. The sand is gray, generally fine grained up to medium and coarse grain (in places), with little silt and trace gravel. From approximately 3.5 to 7 ft bgs a sandy silt unit is observed that is predominantly grayish brown and mottled. This unit includes very fine sand, trace gravel, and trace black staining with groundwater observed within the unit. At approximately 7 to 8.0 ft bgs a clay/silt unit is present that is predominately brown with trace very fine to fine grain sand lenses.

ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Fill is present from the ground surface to approximately 2.0 ft bgs and is underlain by sand and silty sand.

iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
No bedrock encountered. Based on regional geology bedrock consists of dolomite at a depth of 100 ft bgs or less.

iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
An asphalt parking lot covers the entire site with concrete at the perimeter. No buildings or structures are present.

B. Groundwater

i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.
Groundwater is encountered at approximately 6 ft bgs or an elevation of approximately 102 ft msl. The water table occurs in a sandy silt unit that extends from approximately 3 to 7 ft bgs and is underlain by a clay/silt unit. Based on wells placed across the water table and piezometers placed at approximately 28 ft bgs there may be a slight upwards gradient in the area.

ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.
Groundwater flow direction is generally to the north and northwest. Based on wells placed across the water table and piezometers placed at approximately 28 ft bgs there may be a slight upwards gradient in the area. Green Bay is approximately 1.5 miles to the north.

iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
No direct hydraulic conductivity measurements were collected. The hydraulic conductivity of sandy silt, indicative of the geology at the site where the water table occurs, is typically in the range from 10-6 to 10-4 centimeters/second or .3 to 3 feet/day.

iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).
None.

3. Site Investigation Summary

A. General

i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.
Initial investigation of the site was in February 1999, when Northern Environmental conducted a Phase II ESA that encountered contamination by petroleum compounds from a former gas station (related to WDNR BRRTS No. 03-05-216499) and chlorinated solvents from a dry cleaning operation existing on site. Investigation activities continued in December 1999 when Northern Environmental completed 12 soil borings, installed seven monitoring wells and 1 piezometer, and collected soil and groundwater samples to define the extent of petroleum and chlorinated solvents in the soil/groundwater.

In May 2001, additional site investigation activities were completed by Northern Environmental and MMA, Inc. These activities included completion of eight geoprobe soil borings additional soil and groundwater sampling.

In February 2006, ARCADIS became involved with the site and in July 2006, ARCADIS implemented remedial activities including soil excavation. In addition, these activities included the installation of three monitoring wells and one piezometer to support a groundwater monitoring program for natural attenuation. Groundwater monitoring activities were continued from 2006 through 2009. In 2008, one additional monitoring well was installed to supplement the groundwater monitoring program.

In August 2009, ARCADIS completed seven additional geoprobe soil borings and soil sampling to further define extent and concentrations of chlorinated solvents in the soil. In July 2010, remediation activities continued with the additional removal of soil. Groundwater monitoring continued from 2009 through 2014.

Previous report submittals that describe these investigation activities are listed in Attachment C.

ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.
Soil contamination may extend off the site property as verified by soil samples collected from soil borings located at the edges of the property. Soil contamination in the vadose zone was historically present primarily within the upper 4 ft bgs, and extended to as deep as approximately 6 ft bgs in the central area of the site, where this soil has been excavated. Groundwater impacts begin at approximately 6 ft bgs (the depth to groundwater) and extend to approximately 14 ft bgs.

Impacted groundwater has not been identified below approximately 14 ft bgs based on data collected from piezometers. Groundwater contamination is highest in the north central portion of the site. Groundwater impacts extend to the north of the site onto the right-of-way for University Avenue, but are not present on the north side of University Avenue, based on data collected from the monitoring wells present. Soil and groundwater impacts may also extend to the west of the site onto the right-of-way for Elizabeth Street adjacent to the soil excavation completed in 2006 near the northwest corner of the site.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

There are currently no impediments on or off the source property for site investigation/remediation. A former building on site was demolished in July 2010, allowing for the removal of impacted soil as a remedy. Currently the site is paved with asphalt and is used as a parking lot.

B. Soil

i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Based on soil boring results, soil contamination may extend off-site. Site contamination consisted of chlorinated solvents, primarily tetrachloroethene and trichloroethene, sourced from previous dry cleaning operations. Methylene chloride has also been identified in the soil. Impacts in the soil were mostly found in the interval from 2-8 ft bgs, with tetrachloroethene concentrations ranging from non-detectable to 368,000 micrograms per kilogram (ug/kg). The highest chlorinated concentrations were present in the central portion of the site, beneath a building that was demolished to allow excavation of this impacted soil. Previous chlorinated constituent concentrations were above direct contact and groundwater pathway protection standards.

Petroleum compounds (benzene/ethylbenzene/naphthalene) are present at two soil boring locations related to former USTs from a gas station also at the site. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.

Tetrachloroethene concentrations ranging from non-detectable to 368,000 ug/kg were historically present in the upper 4 ft of soil. Presently tetrachloroethene concentrations ranging from non-detectable to 1,690 ug/kg remain in the upper 4 ft of soil. Methylene chloride concentrations ranging from non-detectable to 37 ug/kg also remain in the upper 4 ft of soil.

Petroleum compounds (benzene (37 ug/kg)/ethylbenzene (2,900 ug/kg)/naphthalene (1,300 ug/kg)) are present at two soil boring locations. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/ information in Attachment C.

Generic NR 720.08 Residual Contaminant Levels (RCLs) for Non-Industrial direct contact and soil to groundwater pathway standards were used.

C. Groundwater

i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

Groundwater contamination consisting of chlorinated compounds, from prior dry cleaning activities at the site, begin at approximately 6 ft bgs (the depth to groundwater) and extend to approximately 14 ft bgs. Impacted groundwater has not been identified below approximately 14 ft bgs based on data collected from piezometers. Groundwater contamination is highest in the north central portion of the site. Groundwater impacts extend to the north of the site onto the right-of-way for University Avenue, but are not present on the north side of University Avenue, based on data collected from monitoring wells located there. Groundwater impacts also extend to the west of the site onto the right-of-way for Elizabeth Street adjacent to the soil excavation completed in 2006 near the northwest corner of the site. Potable water is supplied by the city of Green Bay, and there are no water supply walls with the area. There are no buildings or foundations on the site. Groundwater contamination does not extend to buildings north and east of the site.

ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

No free product was encountered at the site.

D. Vapor

i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

The former building at the site was demolished and the chlorinated compound source was excavated and removed from the site. No buildings remain at the site. Surrounding buildings are not within 100 ft of the previous chlorinated compounds source area. No buildings overlay the remaining groundwater plume with groundwater concentrations above Wisconsin's groundwater enforcement standards (ES). Monitoring wells present between the site and buildings to the north and east indicate that groundwater is not contaminated in the area of the off site buildings.

ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

Not Applicable. No buildings on site or within 100 feet of former source area.

E. Surface Water and Sediment

i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

Not Applicable. No surface water/sediment within 1200 ft of site.

ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

Not Applicable. No surface water/sediment was assessed.

4. Remedial Actions Implemented and Residual Levels at Closure

A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

Based on the investigation activities conducted by Northern Environmental and MMA, Inc. in 1999 and 2001, two areas of the site were identified as likely source areas. These initial soil removal activities were approved by the WDNR in a letter dated May 15, 2006. Remedial actions at the Site were initially completed in 2006, and consisted of soil excavation at the two apparent source areas totaling 170 tons, and the abandonment of two wells within the areas of the excavations. Subsequent investigation activities indicated an additional source area beneath the building. In 2010, the building was demolished and 709.4 tons of soil were removed from the area of the former building. These soil removal activities were approved by the WDNR in a letter dated June 17, 2010. A total of approximately 879 tons of impacted soil were removed in 2006 and 2010 from these three source areas, and are defined by soil samples collected from soil borings. Groundwater impacts are being addressed through natural attenuation. There are no active systems at the Site presently or historically.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.

There were no immediate or interim actions.

C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

There were no active remedial actions.

D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.

Removing the source from the site addressed the long-term care and management of the property.

E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.

Based on soil boring results, soil contamination may extend off-site. Presently tetrachloroethene concentrations ranging from non-detectable to 1,690 ug/kg remain in localized areas in the upper 4 ft of soil on site. Below 4 ft, tetrachloroethene concentrations generally range from non-detect to 4,300 ug/kg. The highest remaining concentrations of tetrachloroethene are present at the base of the main excavation in the central portion of the site at 8 to 10 ft bgs, and range from non-detect to 93,100 ug/kg. This area is covered by 8-10 ft of clean fill material and an asphalt cover in place under requirements of the WDNR BRRTS No. 03-05-216499 case closure.

Trichloroethene is not present in the upper 4 ft of soil, and generally ranges from non-detect to 190 ug/kg below 4 ft. The highest remaining concentrations of trichloroethene are also at the base of the main excavation, and range from non-detect to 13,300 ug/kg. Methylene chloride concentrations ranging from non-detectable to 3,200 ug/kg also are present at the base of the main excavation.

Petroleum compounds (benzene (37 ug/kg)/ethylbenzene (2,900 ug/kg)/naphthalene (1,300 ug/kg)) are also present at two

soil boring locations at depths of 2.5 to 4 ft bgs. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.

Presently tetrachloroethene concentrations ranging from non-detectable to 1,690 ug/kg remain in the upper 4 ft of soil. Methylene chloride concentrations ranging from non-detectable to 37 ug/kg also remain in the upper 4 ft of soil. These concentrations are all below the non-industrial direct contact RCLs.

Petroleum compounds (benzene (37 ug/kg)/ethylbenzene (2,900 ug/kg)/naphthalene (1,300 ug/kg)) are present at two soil boring locations. These concentrations are all below the direct contact RCLs. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

Tetrachloroethene concentrations present above the observed low water table that exceed the soil standards for groundwater pathway range from 33.1 to 1,690 ug/kg. Trichloroethene concentrations present above the observed low water table that exceed the soil standard for groundwater pathway range from 43 to 190 ug/kg. Methylene chloride concentrations are also present above the observed low water table that exceed the soil standard for the groundwater pathway, and range from 37 to 167 ug/kg.

Petroleum compounds (benzene (37 ug/kg)/ethylbenzene (2,900 ug/kg)/naphthalene (1,300 ug/kg)) are present above the observed low water table at two soil boring locations that exceed the soil standards for the groundwater pathway.

H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

The site currently has an asphalt/concrete engineered barrier, cap maintenance plan, and the property is recorded on the WDNR GIS registry per the requirements of WDNR BRRTS No. 03-05-216499 case closure. A new maintenance plan that addresses the residual contamination associated with both the petroleum and chlorinated sites is included in Attachment D. Residual contamination in the groundwater is being addressed by natural attenuation. There are no buildings on-site or within 100 ft of the original source.

I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).

As many as 21 rounds of groundwater samples have been collected from older wells and up to 12 rounds from more recent monitoring wells (including 5 years of post excavation monitoring activities) to establish decreasing concentrations in the groundwater and a receding groundwater plume. Mann-Kendall analysis have been completed on 5 select wells to establish decreasing trends. Groundwater analytical results show a decrease of up to approximately 80 percent for tetrachloroethene and trichloroethene between historic high concentrations and the most recent round of groundwater samples. Trends in CVOC daughter product concentrations also support a receding groundwater plume through the use of natural attenuation.

J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).

Chlorinated contaminated soil at the site has been excavated and removed from the site. There are no soil exceedances above the non-industrial direct contact RCLs within four feet of ground surface. Residual groundwater impacts are being addressed by natural attenuation. There are no buildings on-site or within 100 ft of the original source.

Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003, with an asphalt/concrete cover, cap maintenance, and property recorded on the WDNR GIS registry. A new maintenance plan that addresses the residual contamination associated with both the petroleum and chlorinated sites is included in Attachment D.

K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.

Not applicable. There were no systems installed at the site.

L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.

Of the 13 monitoring wells sampled during the latest round of groundwater sampling, 3 monitoring wells contained constituent concentrations above the ES and 3 monitoring wells have constituent concentrations above the PAL. Monitoring Wells MW-200 and MW-800 contained trichloroethene and tetrachloroethene concentrations above the PAL, respectively. Monitoring Well AMW-10 contained concentrations of trichloroethene and cis-1,2-dichloroethane above the PAL.

Monitoring Well AMW-10 also contained concentrations of tetrachloroethene (6 ug/L) and vinyl chloride (0.29 ug/L) above the ES. Monitoring Well AMW-15 contained concentrations of cis-1,2-dichloroethane (438 ug/L), tetrachloroethene (108 ug/L), and trichloroethene (120 ug/L) above the ES, and Monitoring Well MW-500 contained concentrations of tetrachloroethene (195 ug/L) and trichloroethene (13.7 ug/L) above the ES. All of the current concentrations in the groundwater above PAL or ES standards have decreased by greater than 50 percent from historic high concentrations and

display an overall decreasing trend.

M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
Not applicable. There are no buildings present on site or within 100 feet of the former source area. The source area has been excavated and removed from the site.

N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.
Not applicable. No surface water/sediment within 1200 ft of the site.

5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.

Directions: For each of the 3 property types below, check all situations that apply to this closure request.
(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

	This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required
	Property Type:				
	Source Property	Affected Property (Off-Source)	ROW		
i.	☐	☒	☐	None of the following situations apply to this case closure request.	NA
ii.	☒	☐	☒	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	☒	☐	☒	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	☐	☐	☐	• Not Abandoned (filled and sealed)	NA
	☐	☐	☐	• Continued Monitoring (requested or required)	Yes
v.	☐	☐	☐	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	☒	☐	☐	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	☐	☐	☐	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	☐	☐	☐	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	☐	☐	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	☐	☐	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	☐	☐	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii	☐	☐	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	☒	☐	☐	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	☐	☐	☐	Site-specific situation: (e. g., fencing, methane monitoring, other) (*discuss with project manager before submitting the closure request*)	Site specific

6. Underground Storage Tanks

A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? ○ Yes ◉ No

B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? ○ Yes ◉ No

C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? ○ Yes ○ No

General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)

Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.

A.2. **Soil Analytical Results Table(s):** Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).

A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.

A.4. **Vapor Analytical Table(s)**: Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.

A.5. **Other Media of Concern (e.g., sediment or surface water)**: Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.

A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.

A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)

Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

B.1. Location Maps

B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.

B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.

B.1.c. **RR Sites Map:** From RR Sites Map (http://dnrmaps.wi.gov/sl/?Viewer=RR Sites) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

B.2.a. **Soil Contamination:** Figure(s) showing the location of **all** identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).

B.2.b. **Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedence (0-4 foot depth).

B.3. Groundwater Figures

B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:

- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
- Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
- Surface features, including buildings and basements, and show surface elevation changes.
- Any areas of active remediation within the cross section path, such as excavations or treatment zones.
- Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)

B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.

B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.

B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.

B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.

B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

B.5. Structural Impediment Photos: One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)

Directions for Documentation of Remedial Action:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.

C.1. **Site investigation documentation,** that has not otherwise been submitted with the Site Investigation Report.

C.2. **Investigative waste** disposal documentation.

C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.

C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.

C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.

C.6. **Other**. Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)

Directions for Maintenance Plans and Photographs:

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3

D.1. **Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**

- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
- Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.

D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.

D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.

D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:
For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

○ No monitoring wells were installed as part of this response action.

◉ All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site

○ ***Select One or More:***

☐ Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.

☐ One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.

☐ One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:
Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

F.1. **Deed:** The most recent deed with legal description clearly listed.

Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

F.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.

F.3. **Verification of Zoning**: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.

F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

Notifications to Owners of Affected Properties (Attachment G)

Directions for Notifications to Owners of Affected Properties:

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39,Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
  Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Notifications to Owners of Affected Properties (Attachment G)

ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Reasons Notification Letter Sent: Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation
A	City of Green Bay ROW adjacent to 1608 University Ave - University Avenue	N/A	03/09/2015	ROWH	680366	450734	X				X								
B	City of Green Bay ROW adjacent to 1608 University Ave - Elizabeth Street	N/A	10/31/2016	ROWH	680337	450719	X	X			X								
C																			
D																			

Signatures and Findings for Closure Determination

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

☒ A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

☒ The response action(s) for this site addresses media other than groundwater.

Engineering Certification

I Christopher Kubacki hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Christopher Kubacki	Senior Engineer
Printed Name	Title

Signature | 11/3/16 Date | E-37734 P.E. Stamp and Number

WISCONSIN CHRISTOPHER D. KUBACKI E-37734 WAUWATOSA WI PROFESSIONAL ENGINEER

Hydrogeologist Certification

I Bruce Evans hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Bruce Evans	Staff Geologist
Printed Name	Title

Signature | 11/03/2016 Date

WISCONSIN BRUCE W. EVANS 484-013 MILWAUKEE, WI PROFESSIONAL GEOLOGIST

Attachment A
Data Tables

Attachments:

A.1 Groundwater Analytical Table - Included
A.2 Soil Analytical Results Tables - Included
A.3 Residual Soil Contamination Table – Included
A.4 Vapor Analytical Table – Not included. There is no risk for vapor migration at the Site so no vapor analytical samples were collected.
A.5 Other Media of Concern – Not included. There are no other media of concern at the Site.
A.6 Water Level Elevations – Included.
A.7 Other – Mann-Kendall Statistical Tests (Form 4400-215) - Included

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	NR 140	NR 140	MW-1										
Sample Date	**ES**	**PAL**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**12/11/06**	**3/13/07**	**6/12/07**	**9/24/07**	**12/4/07**
VOCs													
Benzene	5.0	0.5	<0.21	<0.21	<0.21	<0.41	<0.18	<0.18	<0.41	<0.20	<0.41	<0.41	<0.41
n-Butyl-benzene	--	--	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93	<0.20	<0.93	<0.93	<0.93
Chloromethane	3.0	0.3	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	850	85	NA	NA	NA	NA	NA	NA	<0.75	<0.50	<0.75	<0.75	<0.75
1,2-Dichloroethane	5.0	0.5	<0.23	<0.23	<0.23	<0.36	<0.22	<0.22	<0.36	<0.50	<0.36	<0.36	<0.36
1,1-Dichloroethene	7.0	0.7	NA	NA	NA	NA	NA	NA	<0.57	<0.50	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	70	7.0	1.5	2.3	1.9	<0.83	<0.15	0.38 J	<0.83	<0.20	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	100	20	<0.25	1	0.68 J	<0.89	<0.17	<0.17	<0.89	<0.20	<0.89	<0.89	<0.89
Ethylbenzene	700	140	<0.22	<0.22	<0.22	<0.54	<0.18	<0.18	<0.54	<0.50	0.62 Q	<0.54	<0.54
Isopropylbenzene	--	--	<0.19	<0.19	<0.19	<0.59	<0.19	<0.19	<0.59	<0.20	<0.59	<0.59	<0.59
Methylene Chloride	5.0	0.5	NA	NA	NA	*0.61*	*1.4*	*1.8*	<0.43	<1.0	<0.43	<0.43	<0.43
Naphthalene	40	8	<0.69	<0.69	<0.69	<0.74	<0.24	<0.24	<0.74	<0.25	<0.74	<0.74	<0.74
n-Propylbenzene	--	--	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93	<0.50	<0.93	<0.81	<0.81
Styrene	100	10	<0.86	<0.86	<0.86	<0.86	<0.18	<0.18	<0.86	<0.20	<0.86	<0.86	<0.86
Tetrachloroethene	5.0	0.5	*2.9*	*2.3*	*0.84*	**5.9**	*3.8*	**7.4**	*3.3*	*1.1 J*	*2.5*	*1.9*	*3.1*
Toluene	1,000	200	<0.41	<0.41	<0.41	<0.67	<0.21	<0.21	<0.67	<0.20	<0.67	<0.67	<0.67
Trichloroethene	5.0	0.5	<0.24	0.33 J	<0.24	<0.48	<0.20	0.34 J	<0.48	<0.20	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	--	--	NA	NA	NA	NA	NA	NA	<0.99	<0.20	<0.99	<0.97	<0.97
1,3,5-Trimethylbenzene	--	--	NA	NA	NA	NA	NA	NA	<0.97	<0.20	<0.97	<0.83	<0.83
Trimethylbenzenes	480	96	<0.60	<0.34	<0.34	<0.97	<0.18	<0.18	<1.96	<0.40	<1.96	<1.8	<1.8
Vinyl Chloride	0.2	0.02	<0.25	<0.25	<0.25	<0.18	<0.15	<0.15	<0.18	<0.20	<0.18	<0.18	<0.18
Xylene, m+p	--	--	NA	NA	NA	NA	NA	NA	<1.8	NA	<1.8	<1.8	<1.8
Xylene, o	--	--	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83	<0.83	<0.83
Xylenes	10,000	1,000	<0.69	<0.43	<0.43	<1.8	<0.31	<0.31	<2.63	<0.50	<2.63	<2.63	<2.63
Laboratory Parameters													
Ethane	--	--	NA	NA	NA	NA	NA	NA	0.082	NA	NA	NA	0.120
Ethene	--	--	NA	NA	NA	NA	NA	NA	0.026	NA	NA	NA	0.12
Methane	--	--	NA	NA	NA	NA	NA	NA	4.2	NA	NA	NA	15
Total Organic Carbon (mg/L)	--	--	NA	NA	NA	NA	NA	NA	NA	3.82	NA	NA	7.0

Footnotes on Page 2.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	NR 140	NR 140	MW-1										
Sample Date	ES	PAL	6/13/01	8/7/01	12/17/01	11/21/03	4/27/04	8/9/04	12/11/06	3/13/07	6/12/07	9/24/07	12/4/07
Field Parameters													
Dissolved oxygen (mg/L)	--	--	NA	NA	NA	NA	NA	NA	1.21	1.08	0.09	0.17	0.57
ORP (mV)	--	--	NA	NA	NA	NA	NA	NA	23.2	-13.5	-36.9	-84.0	13.6

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-1 (continued)										MW-5	DUP	MW-5
Sample Date	**3/12/08**	**9/24/08**	**2/23/09**	**9/9/09**	**8/17/10**	**12/1/10**	**6/1/11**	**6/27/12**	**6/11/13**	**7/8/14**	**4/27/04**	**4/27/04**	**8/9/04**
VOCs													
Benzene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.18	<0.18	<0.18
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.15	<0.15	<0.15
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.50	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.39	<0.24	NA	NA	NA
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.22	<0.22	<0.22
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	NA	NA	NA
cis-1,2-Dichloroethene	<0.83	1.0	<0.83	0.9	0.9	0.9	0.9	0.94 J	0.64 J	<0.26	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.17	<0.17	<0.17
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.18	<0.18	<0.18
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	<0.19	<0.19	<0.19
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	*1.4*	*1.4*	<0.43	<0.36	<0.23	*0.71*	*0.74*	*2.2*
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<2.5	<2.5	<0.24	<0.24	<0.24
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.15	<0.15	<0.15
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.18	<0.18	<0.18
Tetrachloroethene	*2.3*	*3.4*	*0.94*	*3.60*	**5.4**	*3.70*	*1.6*	*3.3*	*1.6*	<0.50	<0.20	<0.20	0.33 J
Toluene	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	<0.21	<0.21	<0.21
Trichloroethene	<0.48	*0.52 J*	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	<0.20	<0.20	<0.20
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.57	<0.50	NA	NA	NA
1,3,5-Trimethylbenzene	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.5	<0.50	NA	NA	NA
Trimethylbenzenes	<1.8	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<3.07	<1.00	<0.18	<0.18	<0.18
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.15	<0.15	<0.15
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.82	<1.0	NA	NA	NA
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	NA	NA	NA
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	1.32	<1.50	<0.31	<0.31	0.62 J
Laboratory Parameters													
Ethane	0.029	NA	NA	0.029	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	<.025	NA	NA	<.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	5.8	NA	NA	5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)	4.3	NA	NA	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 4.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-1 (continued)										MW-5	DUP	MW-5
Sample Date	3/12/08	9/24/08	2/23/09	9/9/09	8/17/10	12/1/10	6/1/11	6/27/12	6/11/13	7/8/14	4/27/04	4/27/04	8/9/04
Field Parameters													
Dissolved oxygen (mg/L)	1.13	0.99	0.58	0.73	0.43	7.96	0.34	0.11	5.72	0.65	NA	NA	NA
ORP (mV)	2.7	-0.2	7.4	55.0	-278.9	2.03	16.60	69.4	93.3	-1.7	NA	NA	NA

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-5 (continued)					DUP-A	MW-5		DUP-A	MW-5	DUP-A	MW-5		DUP-1	MW-5
Sample Date	12/12/06	3/13/07	6/13/07	9/25/07	3/11/08	3/12/08	9/25/08	2/23/09	2/23/09	9/9/09	9/9/09	8/16/10	11/30/10	11/30/10	6/2/11
VOCs															
Benzene	<0.41	<0.20	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
n-Butyl-benzene	<0.93	<0.20	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.28 J	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.50	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2-Dichloroethane	<0.36	<0.50	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	<0.57	<0.50	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	<0.83	<0.20	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	<0.89	<0.20	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Ethylbenzene	<0.54	<0.50	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Isopropylbenzene	<0.59	<0.20	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Methylene Chloride	<0.43	*1.1 J*	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Naphthalene	<0.74	<0.25	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<0.89
n-Propylbenzene	<0.93	<0.50	<0.93	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Styrene	<0.86	<0.20	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Tetrachloroethene	<0.45	<0.50	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	<0.67	<0.20	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Trichloroethene	<0.48	<0.20	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	<0.99	<0.20	<0.99	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
1,3,5-Trimethylbenzene	<0.97	<0.20	<0.97	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Trimethylbenzenes	<1.96	<0.40	<1.96	<1.8	<1.8	1.80	<1.8	<1.8	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8
Vinyl Chloride	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<1.8	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Xylene, o	<0.83	NA	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Xylenes	<2.63	<0.50	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63
Laboratory Parameters															
Ethane	<0.025	NA	NA	NA	<0.025	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA
Ethene	<0.025	NA	NA	NA	0.034	NA	NA	NA	NA	<0.025	NA	NA	NA	NA	NA
Methane	0.66	NA	NA	NA	0.170	NA	NA	NA	NA	0.66	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)	NA	2.36	NA	NA	1.9 J	NA	NA	NA	NA	2.0	NA	NA	NA	NA	NA

Footnotes on Page 6.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-5 (continued)					DUP-A	MW-5		DUP-A	MW-5	DUP-A	MW-5		DUP-1	MW-5
Sample Date	12/12/06	3/13/07	6/13/07	9/25/07	3/11/08	3/12/08	9/25/08	2/23/09	2/23/09	9/9/09	9/9/09	8/16/10	11/30/10	11/30/10	6/2/11
Field Parameters															
Dissolved oxygen (mg/L)	0.48	0.66	3.43	0.42	3.58	NA	1.08	1.16	NA	1.24	NA	0.88	2.42	NA	2.71
ORP (mV)	41.6	16.4	103.1	35.2	18.5	NA	107.2	112.6	NA	109.1	NA	-256.6	16.4	NA	31.7

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	DUP-1	MW-5 (continued)			MW-200								
Sample Date	**6/2/11**	**6/26/12**	**6/11/13**	**7/8/14**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**3/13/07**	**6/12/07**	**9/25/07**
VOCs													
Benzene	<0.41	<0.41	<0.50	<0.50	**29 J**	**16**	**5.8**	<0.41	<0.18	<36	<4.0	<8.2	<2.0
n-Butyl-benzene	<0.93	<0.93	<0.40	<0.50	42	6.9	4.7	<0.93	<0.15	47 J	<4.0	<19	<4.6
Chloromethane	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.28	<0.24	NA	NA	NA	NA	NA	NA	<10	<15	<3.8
1,2-Dichloroethane	<0.36	<0.36	<0.48	<0.17	<1.2	<1.2	<1.2	<0.36	<0.22	<39	<10	<7.2	<1.8
1,1-Dichloroethene	<0.57	<0.57	<0.43	<0.41	NA	NA	NA	NA	NA	NA	<10	<11	<2.8
cis-1,2-Dichloroethene	<0.83	<0.83	<0.42	<0.26	<11	<1.1	<1.1	<0.83	<0.15	<29	<4.0	<17	<4.1
trans-1,2-Dichloroethene	<0.89	<0.89	<0.37	<0.26	<1.3	<1.3	<1.3	<0.89	<0.17	<29	<4.0	<18	<4.4
Ethylbenzene	<0.54	<0.54	<0.50	<0.50	*520*	1.6 J	<1.1	<0.54	100	**940**	*510*	**730**	*240*
Isopropylbenzene	<0.59	<0.59	<0.34	<0.14	46	<1	<1	<0.59	<0.19	43 J	28	36 Q	20
Methylene Chloride	<0.43	<0.43	<0.36	<0.23	NA	NA	NA	*0.52*	<4.4	<35	<20	<8.6	<2.2
Naphthalene	<0.89	<0.89	<2.5	<2.5	**130**	*28*	*25*	<0.74	*16*	**180**	**120**	**150**	**79**
n-Propylbenzene	<0.81	<0.81	<0.50	<0.50	<1.2	<1.2	<1.2	<0.36	<0.22	<39	56	99	51
Styrene	<0.86	<0.86	<0.35	<0.50	<8.6	<0.86	<0.86	<0.86	8.3	*57 J*	<4.0	<17	<4.3
Tetrachloroethene	<0.45	<0.45	<0.47	<0.50	<11	<1.1	<1.1	*0.65*	<0.20	<41	<10	<9.0	<2.2
Toluene	<0.67	<0.67	<0.44	<0.50	40 J	18	10	<0.67	150	**1,500**	93	190	44
Trichloroethene	<0.48	<0.48	<0.43	<0.33	<12	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.57	<0.50	NA	NA	NA	NA	NA	NA	1200	1200	580
1,3,5-Trimethylbenzene	<0.83	<0.83	<2.5	<0.50	NA	NA	NA	NA	NA	NA	67	140	46
Trimethylbenzenes	<1.8	<1.8	<3.07	<1.00	**885 J**	*182.5 J*	42	<0.97	*248*	**1,220**	**1,267**	**1,340**	**626**
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<1.3	<1.3	<1.3	<0.18	<0.15	<31	<4.0	<3.6	<0.90
Xylene, m+p	<1.8	<1.8	<0.82	<1.0	NA	NA	NA	NA	NA	NA	NA	2700	960
Xylene, o	<0.83	<0.83	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	500	61
Xylenes	<2.63	<2.63	<1.32	<1.50	731	165	440	<1.8	660	*5,000*	*2,400*	*3,200*	*1,021*
Laboratory Parameters													
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.95	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	DUP-1	MW-5 (continued)			MW-200								
Sample Date	6/2/11	6/26/12	6/11/13	7/8/14	6/13/01	8/7/01	12/17/01	11/21/03	4/27/04	8/9/04	3/13/07	6/12/07	9/25/07
Field Parameters													
Dissolved oxygen (mg/L)	NA	1.31	3.13	2.02	NA	NA	NA	NA	NA	NA	0.23	0.04	0.04
ORP (mV)	NA	58.9	65.6	-23.5	NA	NA	NA	NA	NA	NA	-165.5	-123.9	-186.7

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-200 (continued)										MW-500		
Sample Date	**12/3/07**	**9/24/08**	**2/24/09**	**9/10/09**	**08/16/10**	**12/2/10**	**6/2/11**	**9/11/12**	**6/11/13**	**7/9/14**	**6/13/01**	**8/7/01**	**12/17/01**
VOCs													
Benzene	<4.1	<2.0	<2.0	<4.1	<0.41	<0.41	<2.0	0.46 J	<1.2	<0.50	<2.1	<2.1	<2.1
n-Butyl-benzene	<9.3	<4.6	<4.6	<9.3	<0.93	4.3	<4.6	1.90	<1.0	<0.50	<1.3	<1.3	<1.3
Chloromethane	<0.24	<1.2	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.97	<0.50	<0.24	<0.24	<0.24
1,1-Dichloroethane	<7.5	<3.8	<3.8	<7.5	<0.75	<0.75	<3.8	<0.75	<0.71	<0.24	NA	NA	NA
1,2-Dichloroethane	<3.6	<1.8	<1.8	<3.6	<0.36	<0.36	<1.8	<0.36	<1.2	<0.17	<2.3	<2.3	<2.3
1,1-Dichloroethene	<7.5	<2.8	<2.8	<7.5	<0.57	<0.57	<2.8	<0.57	<1.1	<0.41	NA	NA	NA
cis-1,2-Dichloroethene	<8.3	<4.1	<4.1	<8.3	<0.83	<0.83	<4.1	<0.83	1.0 J	<0.26	<2.1	<2.1	<2.1
trans-1,2-Dichloroethene	<8.9	<4.4	<4.4	<8.9	<0.89	<0.89	<4.4	<0.89	<0.93	<0.26	<2.5	<2.5	<2.5
Ethylbenzene	*490*	*424*	*192*	*433*	13.2	*149*	*179*	46	105	<0.50	<2.2	<2.2	<2.2
Isopropylbenzene	36	27.9	19.9	27.5	1.3	11.9	13.9	7.8	8.3	3.1	<1.9	<1.9	<1.9
Methylene Chloride	<4.3	<2.2	<2.2	<4.3	<0.43	<0.43	<2.2	<0.43	<0.90	<0.23	NA	NA	NA
Naphthalene	**110**	**102**	*32.3*	**79.9**	<0.89	*32.2*	**49.1**	*8.3*	*16.3*	<2.5	<6.9	<6.9	<6.9
n-Propylbenzene	85	74.6	45.1	89.9	2.7	34.1	39.5	22.6	21.8	0.57 J	<1.3	<1.3	<1.3
Styrene	<8.6	<4.3	<4.3	<8.6	<0.86	2.7	<4.3	<0.86	<0.87	<0.50	<0.86	<0.86	<0.86
Tetrachloroethene	<4.5	*2.5 J*	<2.2	<4.5	*0.66 J*	<0.45	<2.2	<0.45	<1.2	<0.50	**430**	**650**	**500**
Toluene	63	80.8	8.1	46	0.89 J	10	<3.4	10.7	11.9	<0.50	<4.1	<4.1	<4.1
Trichloroethene	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	*0.72 J*	<1.1	*0.56 J*	*3.1 J*	**10**	*4.3 J*
1,2,4-Trimethylbenzene	910	515	299	642	19.3	<0.97	412	98.5	139.0	5.2	NA	NA	NA
1,3,5-Trimethylbenzene	130	61.3	17.9	55	<0.83	24	51.8	5.0	7.0 J	<0.50	NA	NA	NA
Trimethylbenzenes	**1,040**	**576.3**	*317*	**697**	NA	25	*464*	*103.5*	*146*	4.7	<6.0	<3.4	<3.4
Vinyl Chloride	<1.8	<0.90	<0.90	<1.8	<0.18	<0.18	<0.90	<0.18	<0.46	<0.18	<2.5	<7.9	**7.2 J**
Xylene, m+p	2,300	1240	689	1,400	52.9	494	837	179	350	<1.0	NA	NA	NA
Xylene, o	140	276	36.0	264	10.8	84.1	140	13.1	23.0	<0.50	NA	NA	NA
Xylenes	*2,440*	*1,516*	725	*1,664*	63.7	578	977	192.1	373	<1.50	<6.9	<4.3	<4.3
Laboratory Parameters													
Ethane	19.00	NA	NA	18.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	0.18	NA	NA	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	2,700	NA	NA	2,655	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)	8.8	NA	NA	10.3	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-200 (continued)										MW-500		
Sample Date	**12/3/07**	**9/24/08**	**2/24/09**	**9/10/09**	**08/16/10**	**12/2/10**	**6/2/11**	**9/11/12**	**6/11/13**	**7/9/14**	**6/13/01**	**8/7/01**	**12/17/01**
Field Parameters													
Dissolved oxygen (mg/L)	1.6	0.28	0.48	0.2	0.72	1.2	0.33	0.43	0.79	0.38	NA	NA	NA
ORP (mV)	-176.0	-142.4	-48.9	-87.3	-323.8	-233.9	-78.6	29.2	-114.3	-34.1	NA	NA	NA

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-500 (continued)												
Sample Date	**11/21/03**	**4/27/04**	**12/12/06**	**3/13/07**	**6/12/07**	**9/25/07**	**12/4/07**	**3/12/08**	**9/23/08**	**2/24/09**	**9/10/09**	**8/17/10**	**12/2/10**
VOCs													
Benzene	<0.41	<0.18	<0.41	<0.20	<0.82	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<1.0	<0.41
n-Butyl-benzene	<0.93	<0.15	<0.93	<0.20	<1.9	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<2.3	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.60	<0.24
1,1-Dichloroethane	NA	NA	<0.75	<0.50	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<1.9	<0.75
1,2-Dichloroethane	<0.36	<0.22	<0.36	<0.50	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<1.9	<0.36
1,1-Dichloroethene	NA	NA	<0.57	<0.50	<1.1	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<1.4	<0.57
cis-1,2-Dichloroethene	<0.83	<0.15	<0.83	<0.20	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.1	<0.83
trans-1,2-Dichloroethene	<0.89	<0.17	<0.89	<0.20	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<2.2	<0.89
Ethylbenzene	<0.54	<0.18	<0.54	<0.50	<1.1	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<1.4	<0.54
Isopropylbenzene	<0.59	<0.19	<0.59	<0.20	<1.2	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<1.5	<0.59
Methylene Chloride	<0.43	0.87	<0.43	<2.0	<0.86	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<1.1	<0.43
Naphthalene	<0.74	<0.24	<0.74	<0.25	<1.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<2.2	<0.74
n-Propylbenzene	<0.93	<0.15	<0.93	<0.50	<1.9	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<2.0	<0.81
Styrene	<0.86	<0.18	<0.86	<0.20	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<2.2	<0.86
Tetrachloroethene	**44**	**24**	**180**	**110**	**220**	**240**	**110**	**16**	**231**	**59.2**	**259**	**127**	**35.4**
Toluene	<0.67	<0.21	<0.67	<0.20	<1.3	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<1.7	<0.67
Trichloroethene	**7.1**	*4.8*	**7.9**	**5.0**	**6.6**	**9.5**	**8.5**	**6.2**	**12.9**	**5.6**	**17.9**	**13.6**	**6.6**
1,2,4-Trimethylbenzene	NA	NA	<0.99	0.68 J	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<2.4	<0.97
1,3,5-Trimethylbenzene	NA	NA	<0.97	<0.20	<1.9	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.1	<0.83
Trimethylbenzenes	<0.97	<0.18	<1.96	0.88	<3.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	NA	<1.8
Vinyl Chloride	<0.18	<0.15	<0.18	<0.20	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18
Xylene, m+p	NA	NA	<1.8	NA	<3.6	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<1.8
Xylene, o	NA	NA	<0.83	NA	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.1	<0.83
Xylenes	<1.8	<0.31	<2.63	3.2 J	<5.3	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<6.60	<2.63
Laboratory Parameters													
Ethane	NA	NA	<0.025	NA	NA	NA	0.041	0.03	NA	NA	<0.025	NA	NA
Ethene	NA	NA	<0.025	NA	NA	NA	<0.025	<0.025	NA	NA	<0.025	NA	NA
Methane	NA	NA	1.4	NA	NA	NA	4.6	2.8	NA	NA	1.4	NA	NA
Total Organic Carbon (mg/L)	NA	NA	NA	5.03	NA	NA	3.5	2.1	NA	NA	4.2	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-500 (continued)												
Sample Date	**11/21/03**	**4/27/04**	**12/12/06**	**3/13/07**	**6/12/07**	**9/25/07**	**12/4/07**	**3/12/08**	**9/23/08**	**2/24/09**	**9/10/09**	**8/17/10**	**12/2/10**
Field Parameters													
Dissolved oxygen (mg/L)	NA	NA	0.62	1.24	0.70	0.35	0.78	0.25	0.67	0.63	0.48	1.68	0.35
ORP (mV)	NA	NA	13.5	-73.7	28.1	25.0	60.3	-86.7	127.2	-9.3	141.9	-248.2	28.5

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-500 (continued)				MW-800	DUP	MW-800					
Sample Date	**6/2/11**	**9/11/12**	**6/12/13**	**7/9/14**	**6/13/01**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**12/12/06**
VOCs												
Benzene	<0.82	<0.82	<1.0	<1.0	<0.21	<0.21	<0.21	<0.21	<0.41	<0.18	<0.18	<0.41
n-Butyl-benzene	<1.82	<1.9	<0.80	<1.0	<0.13	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93
Chloromethane	<0.48	<0.48	<0.78	<1.0	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<1.2	<1.5	<0.57	<0.48	NA	NA	NA	NA	NA	NA	NA	<0.75
1,2-Dichloroethane	<0.72	<0.72	<0.95	<0.34	<0.23	<0.23	<0.23	<0.23	<0.36	<0.22	<0.22	<0.36
1,1-Dichloroethene	<1.2	<1.1	<0.85	<0.82	NA	NA	NA	NA	NA	NA	NA	<0.57
cis-1,2-Dichloroethene	<1.6	<1.7	<0.84	<0.51	1.2	1.5	1.3	1.3	1.6	0.18	2.3	2.1 Q
trans-1,2-Dichloroethene	<1.7	<1.8	<0.74	<0.51	<0.25	<0.25	<0.25	<0.25	<0.89	<0.17	0.24 J	<0.89
Ethylbenzene	<1.1	<1.1	<1.0	<1.0	<0.22	<0.22	<0.22	<0.22	<0.54	<0.18	<0.18	<0.54
Isopropylbenzene	<1.2	<1.2	<0.68	<0.29	<0.19	<0.19	<0.19	<0.19	<0.59	<0.19	<0.19	<0.59
Methylene Chloride	<0.86	<0.86	<0.72	<0.47	NA	NA	NA	NA	*0.85*	0.23	*0.77*	<0.43
Naphthalene	<1.4	<1.8	<5.0	<5.0	<0.69	<0.69	<0.69	<0.69	<0.74	<0.24	<0.24	<0.74
n-Propylbenzene	<1.6	<1.6	<1.0	<1.0	<0.13	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93
Styrene	<1.7	<1.7	<0.70	<1.0	<0.86	<0.86	<0.86	<0.86	<0.86	<0.18	<0.18	<0.86
Tetrachloroethene	**148**	**372**	**217**	**195**	<0.22	*0.74*	<0.22	<0.22	<0.45	*1.2*	0.36 J	<0.45
Toluene	<1.2	<1.3	<0.88	<1.0	<0.41	<0.41	<0.41	<0.41	<0.67	<0.21	<0.21	<0.67
Trichloroethene	**21.4**	**58.8**	**24**	**13.7**	<0.24	<0.24	<0.24	<0.24	<0.48	<0.20	<0.20	<0.48
1,2,4-Trimethylbenzene	<1.8	<1.9	<1.1	<1.0	NA	NA	NA	NA	NA	NA	NA	<0.99
1,3,5-Trimethylbenzene	<1.6	<1.7	<5.0	<1.0	NA	NA	NA	NA	NA	NA	NA	<0.97
Trimethylbenzenes	<3.4	<3.6	<6.1	<2.0	<0.60	<0.60	<0.34	<0.34	<0.97	<0.18	<0.18	<1.96
Vinyl Chloride	<0.36	<0.36	<0.37	<0.35	<0.25	<0.25	<0.25	<0.25	<0.18	<0.15	<0.15	<0.18
Xylene, m+p	<3.6	<3.6	<1.6	<2.0	NA	NA	NA	NA	NA	NA	NA	<1.8
Xylene, o	<1.6	<1.7	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	<0.83
Xylenes	<5.2	<5.3	<2.6	<3.0	<0.69	<0.69	<0.43	<0.43	<1.8	<0.31	<0.31	<2.63
Laboratory Parameters												
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	MW-500 (continued)				MW-800	DUP	MW-800					
Sample Date	**6/2/11**	**9/11/12**	**6/12/13**	**7/9/14**	**6/13/01**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**12/12/06**
Field Parameters												
Dissolved oxygen (mg/L)	5.21	1.25	1.31	0.83	NA	NA	NA	NA	NA	NA	NA	0.22
ORP (mV)	38.5	49.4	76.0	-22.7	NA	NA	NA	NA	NA	NA	NA	40.0

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

	MW-800 (continued)									AMW-10			
Sample Date	**6/13/07**	**9/25/07**	**9/9/09**	**8/16/10**	**12/1/10**	**6/1/11**	**9/11/12**	**6/10/13**	**7/8/14**	**8/24/06**	**12/11/06**	**3/13/07**	**6/13/07**
VOCs													
Benzene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.41	<0.41	<0.20	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.93	<0.93	<0.20	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	<0.75	<0.75	<0.50	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.36	<0.36	<0.50	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	<0.57	<0.57	<0.50	<0.57
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.26	**130**	**74**	*56*	*37*
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.89	2.2 Q	2.2	2.3 Q
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.54	<0.54	<0.50	<0.54
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	<0.59	<0.59	<0.20	<0.59
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.36	<0.23	<0.43	<0.43	<1.0	<0.43
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<2.5	<2.5	<0.74	<0.74	<0.25	<0.74
n-Propylbenzene	<0.93	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.93	<0.93	<0.50	<0.93
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.86	<0.86	<0.20	<0.86
Tetrachloroethene	<0.45	*0.72*	<0.45	*1.2*	<0.45	<0.45	*0.62 J*	<0.47	*0.77 J*	**31**	**20**	**25**	**23**
Toluene	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	<0.67	<0.67	<0.20	<0.67
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	**150**	**100**	**80**	**91**
1,2,4-Trimethylbenzene	<0.99	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.57	<0.50	<0.99	<0.99	<0.20	<0.99
1,3,5-Trimethylbenzene	<0.97	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.5	<0.50	<0.97	<0.97	<0.20	<0.97
Trimethylbenzenes	<1.96	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<3.07	<1.00	<1.96	<1.96	<0.40	<1.96
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	0.44 J	<0.18	*0.19 J*	<0.18	<0.18	<0.18	<0.20	<0.18
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.82	<1.0	<1.8	<1.8	NA	<1.8
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	<0.83	<0.83	NA	<0.83
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	<2.63	<2.63	<0.50	<2.63
Laboratory Parameters													
Ethane	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	0.061	NA	NA
Ethene	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	0.110	NA	NA
Methane	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	5.1	NA	NA
Total Organic Carbon (mg/L)	NA	NA	10.1	NA	NA	NA	NA	NA	NA	NA	NA	3.18	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

	MW-800 (continued)									AMW-10			
Sample Date	**6/13/07**	**9/25/07**	**9/9/09**	**8/16/10**	**12/1/10**	**6/1/11**	**9/11/12**	**6/10/13**	**7/8/14**	**8/24/06**	**12/11/06**	**3/13/07**	**6/13/07**
Field Parameters													
Dissolved oxygen (mg/L)	0.15	0.25	0.37	0.22	1.49	0.37	0.43	1.56	0.59	1.20	0.36	0.68	0.13
ORP (mV)	6.6	-11.7	64.1	-310.3	-123.4	59	29.2	69.5	-2.0	-76.60	-81.8	-53.6	-72.4

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-10 (continued)		DUP-1	AMW-10 (continued)									
Sample Date	**9/25/07**	**12/4/07**	**12/4/07**	**3/11/08**	**9/24/08**	**2/24/09**	**9/10/09**	**8/17/10**	**12/2/10**	**6/2/11**	**6/27/12**	**DUP-1**	**6/11/13**
VOCs													
Benzene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.39
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.28
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43
cis-1,2-Dichloroethene	*45*	*43*	*42*	*29*	*62.4*	*16.6*	**94.7**	*65.7*	**94.2**	**79.7**	**70.5**	*69.6*	**122**
trans-1,2-Dichloroethene	2.5	6.0	6.0	3.4	4.5	1.4	3.8	1.5	2.0	1.8	7.6	7.5	14.4
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.34
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.36
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35
Tetrachloroethene	**17**	**20**	**11**	**8**	**17.6**	**8.5**	**17**	**27.1**	**6.6**	**9.8**	*2.9*	*2.6*	**7.9**
Toluene	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.44
Trichloroethene	**130**	**100**	**100**	**70**	**84.9**	**27.5**	**43.4**	**27.3**	**5.0**	**9.1**	*2.6*	*2.7*	*3.7*
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.57
1,3,5-Trimethylbenzene	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<2.5
Trimethylbenzenes	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.07
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**1.1**
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.82
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.32
Laboratory Parameters													
Ethane	NA	0.036	NA	0.037	NA	NA	0.036	NA	NA	NA	NA	NA	NA
Ethene	NA	0.072	NA	0.076	NA	NA	0.072	NA	NA	NA	NA	NA	NA
Methane	NA	5.6	NA	3.5	NA	NA	5.6	NA	NA	NA	NA	NA	NA
Total Organic Carbon (mg/L)	NA	3.4	NA	2.7	NA	NA	1.6 J	NA	NA	NA	NA	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-10 (continued)		DUP-1	AMW-10 (continued)									
Sample Date	**9/25/07**	**12/4/07**	**12/4/07**	**3/11/08**	**9/24/08**	**2/24/09**	**9/10/09**	**8/17/10**	**12/2/10**	**6/2/11**	**6/27/12**	**DUP-1**	**6/11/13**
Field Parameters													
Dissolved oxygen (mg/L)	0.40	0.25	NA	1.87	0.49	0.56	0.41	0.22	0.85	1.53	0.07	NA	1.85
ORP (mV)	-62.8	-34.0	NA	-36.0	-53.7	-13.8	96.3	-309.7	-151.1	2.8	35.1	NA	-4.5

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-10 (continued)	AMW-11				MW-99	AMW-11					
Sample Date	**7/9/14**	**8/24/06**	**12/11/06**	**3/13/07**	**6/13/07**	**6/13/07**	**9/26/07**	**12/4/07**	**3/12/08**	**9/24/08**	**2/25/09**	**9/11/09**
VOCs												
Benzene	<0.50	<41	<20	<40	<41	<41	<20	<41	<10.2	<8.2	<20	<16.4
n-Butyl-benzene	<0.50	<93	<46	<40	<93	<93	<46	<93	<23.2	<18.6	<46	<37.2
Chloromethane	<0.50	<24	<24	<24	<24	<24	<24	<24	<24	<4.8	<24	<9.6
1,1-Dichloroethane	<0.24	<75	<38	<100	<75	<75	<38	<75	<18.8	<15	<38	<30
1,2-Dichloroethane	<0.17	<36	<18	<100	<36	<36	<18	<36	<9.0	<7.2	<18	<14.4
1,1-Dichloroethene	<0.41	<57	<28	<100	<57	<57	<28	<57	<14.2	<11.4	<28	<22.8
cis-1,2-Dichloroethene	*44.1*	<83	<42	<40	<83	<83	<42	<83	<20.8	<16.5	**203**	*53.1*
trans-1,2-Dichloroethene	4.8	<89	<44	<40	<89	<89	<44	<89	<22.2	<17.8	<44	<35.6
Ethylbenzene	<0.50	<54	<27	<100	<54	<54	<27	<54	<13.5	<10.8	<27	<21.6
Isopropylbenzene	<0.14	<59	<30	<40	<59	<59	<30	<59	<14.8	<11.8	<30	<23.6
Methylene Chloride	<0.23	<43	<22	<200	<43	<43	<22	<43	<10.8	<8.6	<22	<17.2
Naphthalene	<2.5	<74	<37	<50	<74	<74	<37	<74	<18.5	<17.8	<37	<35.6
n-Propylbenzene	<0.50	<93	<46	<100	<93	<93	<40	<81	<20.2	<16.2	<40	<32.4
Styrene	<0.50	<86	<43	<40	<86	<86	<43	<86	<21.5	<17.2	<43	<34.4
Tetrachloroethene	**6.0**	**7,600**	**9,000 N**	**7,200**	**6,500**	**6,200**	**5,900**	**7,200**	**3,450**	**4,010**	**6,090**	**4,400**
Toluene	<0.50	<67	<34	<40	<67	<67	<34	<67	<16.8	<13.4	<34	<26.8
Trichloroethene	*2.9*	<48	**25 Q**	<40	<48	<48	**32**	**88**	**38.8**	**48.9**	**368**	**188**
1,2,4-Trimethylbenzene	<0.50	<99	<48	<40	<99	<99	<48	<97	<24.2	<19.4	<48	<38.8
1,3,5-Trimethylbenzene	<0.50	<83	<42	<40	<83	<83	<42	<83	<20.8	<16.6	<42	<32.3
Trimethylbenzenes	<1.00	<182	<90	<80	<182	<182	<90	<180	<45	<36	<90	<62
Vinyl Chloride	**0.72 J**	<18	<9.0	<40	<18	<18	<9.0	<18	<4.5	<3.6	<9.0	<7.2
Xylene, m+p	<1.0	<83	<42	NA	<83	<83	<90	<180	<45.0	<36	<90	<62
Xylene, o	<0.50	<180	<90	NA	<180	<180	<42	<83	<20.8	<16.6	<42	<32.3
Xylenes	<1.50	<263	<132	<100	<263	<263	<132	<263	<65.8	<52.6	<132	<105.2
Laboratory Parameters												
Ethane	NA	NA	<0.025	NA	NA	NA	NA	0.032	0.026	NA	NA	0.036
Ethene	NA	NA	0.042	NA	NA	NA	NA	0.720	<0.025	NA	NA	0.072
Methane	NA	NA	0.430	NA	NA	NA	NA	1.1	4.7	NA	NA	5.6
Total Organic Carbon (mg/L)	NA	NA	NA	10.1	NA	NA	NA	12	9.1	NA	NA	9.6

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-10 (continued)	AMW-11				MW-99	AMW-11					
Sample Date	7/9/14	8/24/06	12/11/06	3/13/07	6/13/07	6/13/07	9/26/07	12/4/07	3/12/08	9/24/08	2/25/09	9/11/09
Field Parameters												
Dissolved oxygen (mg/L)	0.40	1.50	0.67	3.02	0.45	NA	0.56	0.66	1.31	0.81	0.99	0.91
ORP (mV)	-34.8	33	16.3	-48.9	46.3	NA	871.2	44.2	-28.8	87.5	5.8	95.9

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-12	MW-99*	AMW-12	DUP-A*	AMW-12			DUP-1	AMW-12				
Sample Date	8/24/06	8/24/06	12/11/06	12/11/06	3/13/07	6/12/07	9/24/07	9/24/07	12/4/07	3/11/08	9/24/08	2/24/09	9/9/09
VOCs													
Benzene	<0.41	<0.41	<0.41	<0.41	<0.20	<0.41	<0.41	<0.41	<0.41	0.87	<0.41	1.0	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.20	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.50	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.50	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.50	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	<0.83	<0.20	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.20	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.50	<0.54	<0.54	<0.54	<0.54	1.5	<0.54	1.0	<0.54
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.20	<0.59	<0.59	<0.59	<0.59	0.66J	<0.59	<0.59	<0.59
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	*1.2 J*	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	0.47 JZ
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.25	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
n-Propylbenzene	<0.93	<0.93	<0.93	<0.93	<0.50	<0.93	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Styrene	<0.86	<0.86	<0.86	<0.86	<0.20	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Tetrachloroethene	**5.6**	**5.8**	<0.45	<0.45	<0.50	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	<0.67	<0.67	<0.67	<0.67	<0.20	<0.67	<0.67	<0.67	<0.67	1.5	<0.67	3.7	<0.67
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.20	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	<0.99	<0.99	<0.99	<0.99	<0.20	<0.99	<0.97	<0.97	<0.97	3.3	<0.97	<0.97	<0.97
1,3,5-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.20	<0.97	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Trimethylbenzenes	<1.96	<1.96	<1.96	<1.96	<0.40	<1.96	<1.8	<1.8	<1.8	<3.98	<1.8	<3.98	<1.8
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	NA	<1.8	<1.8	<1.8	<1.8	164	<1.8	167	<1.8
Xylene, o	<0.83	<0.83	<0.83	<0.83	NA	<0.83	<0.83	<0.83	<0.83	.85J	<0.83	.84J	<0.83
Xylenes	<2.63	<2.63	<2.63	<2.63	<0.50	<2.63	<2.63	<2.63	<2.63	164.85	<2.63	167.84	<2.63
Laboratory Parameters													
Ethane	NA	NA	<0.025	NA	NA	NA	NA	NA	1.400	3.0	NA	NA	1.2
Ethene	NA	NA	<0.025	NA	NA	NA	NA	NA	<0.025	0.070	NA	NA	<0.025
Methane	NA	NA	2.6	NA	NA	NA	NA	NA	250	480	NA	NA	234
Total Organic Carbon (mg/L)	NA	NA	NA	NA	3.57	NA	NA	NA	6.1	5.3	NA	NA	5.1

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-12	MW-99*	AMW-12	DUP-A*	AMW-12			DUP-1	AMW-12				
Sample Date	8/24/06	8/24/06	12/11/06	12/11/06	3/13/07	6/12/07	9/24/07	9/24/07	12/4/07	3/11/08	9/24/08	2/24/09	9/9/09
Field Parameters													
Dissolved oxygen (mg/L)	0.19	NA	1.51	NA	0.80	0.10	0.71	0.71	0.64	0.56	0.84	0.36	0.97
ORP (mV)	31.6	NA	6.88	NA	23.0	22.5	27.6	27.6	59.0	-9.8	86.4	-6.3	117.1

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-12	DUP-1	AMW-12					AMW-13					
Sample Date	8/17/10	8/17/10	12/1/10	6/1/11	6/27/12	6/10/13	7/9/14	9/26/07	12/03/07	03/11/07	9/23/08	2/24/09	9/10/09
VOCs													
Benzene	<0.41	<0.41	<0.41	0.62 J	<0.41	<0.50	<0.50	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	0.90 J	<0.83	<0.42	<0.26	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Isopropylbenzene	<0.59	<0.59	<0.59	0.64 J	<0.59	<0.34	<0.14	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	<0.36	<0.23	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.89	<2.5	<2.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Tetrachloroethene	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	<0.67	<0.67	<0.67	1.2	<0.67	<0.44	<0.50	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.97	<0.57	<0.50	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
1,3,5-Trimethylbenzene	<0.83	<0.83	<0.83	<0.83	<0.83	<2.5	<0.50	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Trimethylbenzenes	NA	NA	<1.8	<1.8	<1.8	<3.07	<1.00	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<1.8	<1.8	<1.8	1.8 J	<1.8	<0.82	<1.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63
Laboratory Parameters													
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	0.046	0.067	NA	NA	0.067
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	0.025	<0.025	NA	NA	<0.025
Methane	NA	NA	NA	NA	NA	NA	NA	NA	0.1	160	NA	NA	160
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	<1.4	2.6	NA	NA	3.8

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-12	DUP-1	AMW-12					AMW-13					
Sample Date	8/17/10	8/17/10	12/1/10	6/1/11	6/27/12	6/10/13	7/9/14	9/26/07	12/03/07	03/11/07	9/23/08	2/24/09	9/10/09
Field Parameters													
Dissolved oxygen (mg/L)	0.40	0.40	1.21	0.28	0.58	3.37	3.13	0.38	0.44	0.35	0.33	0.50	0.47
ORP (mV)	-336.8	-336.8	-88.5	20.2	145.6	75.6	-15.9	697.3	52.1	-11.3	111.9	-9.7	95.1

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-13 (continued)						DUP	AMW-14					
Sample Date	**8/16/10**	**12/1/10**	**6/1/11**	**6/26/12**	**6/11/13**	**7/8/14**	**7/8/14**	**9/26/07**	**12/13/07**	**3/11/08**	**9/23/08**	**2/25/09**	**9/10/09**
VOCs													
Benzene	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.50	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.50	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	*2.1*	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	<0.24	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	<0.41	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	<0.83	1.3	<0.83	2.3	<0.42	<0.26	<0.26	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.26	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.50	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	<0.14	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Methylene Chloride	<0.43	0.78 J	<0.43	<0.43	<0.36	<0.23	<0.23	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Naphthalene	<0.74	<0.74	<0.74	<0.89	<2.5	<2.5	<2.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.50	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Styrene	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.50	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Tetrachloroethene	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50	<0.50	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	<0.50	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	<0.33	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.57	<0.50	<0.50	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
1,3,5-Trimethylbenzene	<0.83	<0.83	<0.83	<0.83	<2.5	<0.50	<0.50	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Trimethylbenzenes	NA	<1.8	<1.8	<1.8	<3.07	<1.00	<1.00	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	<0.82	<1.0	<1.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	<0.50	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Xylenes	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	<1.50	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63
Laboratory Parameters													
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	0.076	0.073	NA	NA	0.073
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	1.900	<0.025	NA	NA	<0.025
Methane	NA	NA	NA	NA	NA	NA	NA	NA	14.0	16.0	NA	NA	10.0
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	1.8	2.8	NA	NA	2.4

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-13 (continued)						DUP	AMW-14					
Sample Date	**8/16/10**	**12/1/10**	**6/1/11**	**6/26/12**	**6/11/13**	**7/8/14**	**7/8/14**	**9/26/07**	**12/13/07**	**3/11/08**	**9/23/08**	**2/25/09**	**9/10/09**
Field Parameters													
Dissolved oxygen (mg/L)	0.15	1.94	0.60	0.20	1.05	0.27	0.27	0.40	0.24	0.35	1.30	0.60	0.36
ORP (mV)	-311.3	-46.6	51.2	46.7	32.9	-3.8	-3.8	1,010.6	0.2	-37.3	9.7	3.5	80.9

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-14 (continued)						AMW-15					
Sample Date	**8/16/10**	**11/30/10**	**6/1/11**	**6/26/12**	**6/11/13**	**7/8/14**	**09/24/07**	**12/03/07**	**03/12/08**	**09/24/08**	**02/25/09**	**09/10/09**
VOCs												
Benzene	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.41	<1.0	<0.41	<1.0	<0.41	<1.0
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.93	<2.3	<0.93	<2.3	<0.93	<2.3
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24	<0.24	<0.6	<0.24	<0.6
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	<0.75	<1.9	<0.75	<1.9	<0.75	<1.9
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.36	<0.90	<0.36	<0.9	<0.36	<0.9
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	<0.57	<1.4	*0.76J*	<1.4	*1.1*	<1.4
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	<0.83	<0.42	<0.26	*14*	*35*	*53.4*	**340**	**161**	**221**
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.89	<2.2	1.60	5.2	1.4	2.5
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.54	<1.4	<0.54	<1.4	<0.54	<1.4
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	<0.59	<1.5	<0.59	<1.5	<0.59	<1.5
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.36	<0.23	<0.43	<1.1	<0.43	<1.1	*2.6*	<1.1
Naphthalene	<0.74	<0.89	<0.89	<0.89	<2.5	<2.5	<0.74	<1.8	<0.74	<2.2	<0.74	<2.2
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.81	<2.0	<0.81	<2.0	<0.81	<2.0
Styrene	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.86	<2.2	<0.86	<2.2	<0.86	<2.2
Tetrachloroethene	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50	*3*	**130**	**269**	**90.6**	**103**	**29.3**
Toluene	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	<0.67	<1.7	<0.67	<1.7	<0.67	<1.7
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	**10**	**220**	**197**	**56.5**	**130**	**15.3**
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.97	<0.97	<0.57	<0.50	<0.97	<2.4	<0.97	<2.4	<0.97	<2.4
1,3,5-Trimethylbenzene	<0.83	<0.83	<0.83	<0.83	<2.5	<0.50	<0.83	<2.1	<0.83	<2.1	<0.83	<2.1
Trimethylbenzenes	NA	<1.8	<1.8	<1.8	<3.07	<1.00	<1.8	<4.5	<1.8	<4.5	<1.8	<4.5
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.35**	**0.87**	**1.1**	**0.64**	**0.99 J**	**0.69 J**
Xylene, m+p	<1.8	<1.8	<1.8	<1.8	<0.82	<1.0	<1.8	<4.5	<1.8	<4.5	<1.8	<4.5
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	<0.83	<2.1	<0.83	<2.1	<0.83	<2.1
Xylenes	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	<2.63	<6.6	<2.63	<6.6	<2.63	<6.6
Laboratory Parameters												
Ethane	NA	NA	NA	NA	NA	NA	NA	0.069	0.063	NA	NA	0.063
Ethene	NA	NA	NA	NA	NA	NA	NA	0.079	0.072	NA	NA	0.072
Methane	NA	NA	NA	NA	NA	NA	NA	64	22	NA	NA	19
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	5.5	6.7	NA	NA	4.0

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-14 (continued)						AMW-15					
Sample Date	**8/16/10**	**11/30/10**	**6/1/11**	**6/26/12**	**6/11/13**	**7/8/14**	**09/24/07**	**12/03/07**	**03/12/08**	**09/24/08**	**02/25/09**	**09/10/09**
Field Parameters												
Dissolved oxygen (mg/L)	0.17	0.51	0.54	0.51	1.11	0.24	0.4	0.22	0.21	1.34	4.70	0.57
ORP (mV)	-318.2	-25.3	78.7	76.1	48.1	-8.4	42.9	-60.5	-97.6	-5.40	2.00	40.10

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-15 (continued)						AMW-16	DUP999	AMW-16			
Sample Date	**08/17/10**	**12/02/10**	**06/02/11**	**09/11/12**	**06/11/13**	**07/09/14**	**9/25/08**	**9/25/08**	**2/23/09**	**9/9/09**	**8/16/10**	**11/30/10**
VOCs												
Benzene	<4.1	<4.1	<4.1	<0.41	<5.0	<5.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
n-Butyl-benzene	<9.3	<9.3	<9.3	<0.93	<4.0	17.7	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
Chloromethane	<2.4	<2.4	<2.4	<0.24	<3.9	<5.0	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<7.5	<7.5	<7.5	<0.75	<2.8	<2.4	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2-Dichloroethane	<3.6	<3.6	<3.6	<0.36	<4.8	<1.7	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	<5.7	<5.7	<5.7	<0.57	<4.3	<4.1	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,2-Dichloroethene	**630**	**811**	**1,170**	**149**	**1,280**	**438**	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
trans-1,2-Dichloroethene	<8.9	9.0 J	10.3	2.9	*26.5*	4.7 J	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Ethylbenzene	<0.54	<5.4	<5.4	<0.54	<5.0	<5.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Isopropylbenzene	<5.9	<5.9	<5.9	<0.59	<3.4	30.4	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Methylene Chloride	<4.3	<4.3	<4.3	<0.43	<3.6	<2.3	<0.43	<0.43	<0.43	<0.43	*0.58J*	<0.43
Naphthalene	<8.9	<8.9	<8.9	<0.89	<25.0	<25.0	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89
n-Propylbenzene	<8.1	<8.1	<8.1	<0.81	<5.0	<5.0	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Styrene	<8.6	<8.6	<8.6	<0.86	<3.5	<5.0	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Tetrachloroethene	**794**	**621**	**544**	**45.5**	**257**	**108**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	<6.7	<6.7	<6.7	<0.67	<4.4	<5.0	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Trichloroethene	**506**	**402**	**472**	**11.5**	**349**	**120**	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,2,4-Trimethylbenzene	<9.7	<9.7	<9.7	<0.97	<5.7	<5.0	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
1,3,5-Trimethylbenzene	<8.3	<8.3	<8.3	<0.83	<25.0	<5.0	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Trimethylbenzenes	<18	<18	<18	<1.8	<30.7	<1.0	<1.8	<1.8	<1.8	<1.8	NA	<1.8
Vinyl Chloride	<1.8	<1.8	<1.8	<0.18	<1.8	<1.8	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<18.0	<18.0	<18.0	<1.8	<8.2	<10.0	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Xylene, o	<8.3	<8.3	<8.3	<0.83	<5.0	<5.0	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
Xylenes	<26.3	<26.3	<26.3	<2.63	<13.2	<15.0	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63
Laboratory Parameters												
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.095	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	NA	NA
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7	NA	NA
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.8	NA	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-15 (continued)						AMW-16	DUP999	AMW-16			
Sample Date	08/17/10	12/02/10	06/02/11	09/11/12	06/11/13	07/09/14	9/25/08	9/25/08	2/23/09	9/9/09	8/16/10	11/30/10
Field Parameters												
Dissolved oxygen (mg/L)	0.25	0.88	0.47	0.39	0.91	0.59	0.62	NA	0.40	0.24	0.21	1.03
ORP (mV)	-298.9	-19.5	-103.7	38	-18.0	-28.2	37.7	NA	54.20	40.60	-338.1	5.1

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-16 (continued)				PZ-100								
Sample Date	**5/31/11**	**6/27/12**	**6/11/13**	**7/8/14**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**12/12/06**	**3/13/07**	**6/12/07**
VOCs													
Benzene	<0.41	<0.41	<0.50	<0.50	<0.21	<0.21	<0.21	<0.41	<0.18	<0.18	<0.41	<0.20	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.40	<0.50	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93	<0.20	<0.93
Chloromethane	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.28	<0.24	NA	NA	NA	NA	NA	NA	<0.75	<0.50	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.48	<0.17	<0.23	<0.23	<0.23	<0.36	<0.22	<0.22	<0.36	<0.50	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.43	<0.41	NA	NA	NA	NA	NA	NA	<0.57	<0.50	<0.57
cis-1,2-Dichloroethene	<0.83	<0.83	<0.42	<0.26	<0.21	<0.21	<0.21	<0.83	<0.15	<0.15	<0.83	<0.20	<0.83
trans-1,2-Dichloroethene	<0.89	<0.89	<0.37	<0.26	<0.25	<0.25	<0.25	<0.89	<0.17	<0.17	<0.89	<0.20	<0.89
Ethylbenzene	<0.54	<0.54	<0.50	<0.50	<0.22	<0.22	<0.22	<0.54	<0.18	<0.18	<0.54	<0.50	<0.54
Isopropylbenzene	<0.59	<0.59	<0.34	<0.14	<0.19	<0.19	<0.19	<0.59	<0.19	<0.19	<0.59	<0.20	<0.59
Methylene Chloride	<0.43	<0.43	<0.36	<0.23	NA	NA	NA	0.46	0.32	*0.95*	<0.43	*1.1 J*	<0.43
Naphthalene	<0.89	<0.89	<2.5	<2.5	<0.69	<0.69	<0.69	<0.74	<0.24	<0.24	<0.74	<0.25	<0.74
n-Propylbenzene	<0.81	<0.81	<0.50	<0.50	<0.13	<0.13	<0.13	<0.93	<0.15	<0.15	<0.93	<0.50	<0.93
Styrene	<0.86	<0.86	<0.35	<0.50	<0.86	<0.86	<0.86	<0.86	<0.18	<0.18	<0.86	<0.20	<0.86
Tetrachloroethene	<0.45	<0.45	<0.47	<0.50	<0.22	<0.22	<0.22	<0.45	<0.20	<0.20	<0.45	<0.50	<0.45
Toluene	<0.67	<0.67	<0.44	<0.50	<0.41	<0.41	<0.41	<0.67	<0.21	<0.21	<0.67	<0.20	<0.67
Trichloroethene	<0.48	<0.48	<0.43	<0.33	<0.24	<0.24	<0.24	<0.48	<0.20	<0.20	<0.48	<0.20	<0.48
1,2,4-Trimethylbenzene	<0.97	<0.97	<0.57	<0.50	NA	NA	NA	NA	NA	NA	<0.99	<0.20	<0.99
1,3,5-Trimethylbenzene	<0.83	<0.83	<2.5	<0.50	NA	NA	NA	NA	NA	NA	<0.97	<0.20	<0.97
Trimethylbenzenes	<1.8	<1.8	<3.07	<1.0	<0.60	<0.34	<0.34	<0.97	<0.18	<0.18	<1.96	<0.40	<1.96
Vinyl Chloride	<0.18	<0.18	<0.18	<0.18	<0.25	<0.25	<0.25	<0.18	<0.15	<0.15	<0.18	<0.20	<0.18
Xylene, m+p	<1.8	<1.8	<0.82	<1.0	NA	NA	NA	NA	NA	NA	<1.8	NA	<1.8
Xylene, o	<0.83	<0.83	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<0.83	NA	<0.83
Xylenes	<2.63	<2.63	<1.32	<1.50	<0.69	<0.43	<0.43	<1.8	<0.31	<0.31	<2.63	<0.50	<2.63
Laboratory Parameters													
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.095	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	NA	NA
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	NA	NA
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.41	NA

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	AMW-16 (continued)				PZ-100								
Sample Date	**5/31/11**	**6/27/12**	**6/11/13**	**7/8/14**	**6/13/01**	**8/7/01**	**12/17/01**	**11/21/03**	**4/27/04**	**8/9/04**	**12/12/06**	**3/13/07**	**6/12/07**
Field Parameters													
Dissolved oxygen (mg/L)	0.38	0.31	1.50	0.39	NA	NA	NA	NA	NA	NA	0.90	1.47	0.69
ORP (mV)	-36.2	73.1	44.8	-19.2	NA	NA	NA	NA	NA	NA	-72.2	-90.3	-75.6

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	PZ-100 (continued)												PZ-101	
Sample Date	**9/25/07**	**12/3/07**	**3/12/08**	**9/24/08**	**2/25/09**	**9/11/09**	**8/17/10**	**12/2/10**	**6/2/11**	**6/27/12**	**6/12/13**	**7/8/14**	**9/24/07**	**12/03/07**
VOCs														
Benzene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.41	<0.41
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	<0.93	<0.93
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	<0.24	<0.24
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	<0.75	<0.75
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	<0.36	<0.36
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	<0.57	<0.57
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.26	<0.83	<0.83
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	<0.89	<0.89
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	<0.54	<0.54
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	<0.59	<0.59
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.36	<0.23	<0.43	<0.43
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<2.5	<2.5	<0.74	<0.74
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.81	<0.81
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	<0.86	<0.86
Tetrachloroethene	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50	<0.45	<0.45
Toluene	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	<0.67	<0.67
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	<0.48	<0.48
1,2,4-Trimethylbenzene	<0.97	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.97	<0.57	<0.50	<0.97	<0.97
1,3,5-Trimethylbenzene	<0.83	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.83	<2.5	<0.50	<0.83	<0.83
Trimethylbenzenes	<1.8	<0.45	<0.45	<0.45	<0.45	<0.45	NA	<0.45	<0.45	<1.8	<3.07	<1.00	<1.8	<1.8
Vinyl Chloride	<0.18	<0.67	<0.67	<0.67	<0.67	<0.67	<0.18	<0.67	<0.67	<0.18	<0.18	<0.18	<0.18	<0.18
Xylene, m+p	<1.8	<0.48	<0.48	<0.48	<0.48	<0.48	<1.8	<0.48	<0.48	<1.8	<0.82	<1.0	<1.8	<1.8
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	<0.83	<0.83
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	<2.63	<2.63
Laboratory Parameters														
Ethane	NA	0.110	0.630	NA	NA	0.560	NA	NA	NA	NA	NA	NA	NA	0.470
Ethene	NA	0.540	<0.025	NA	NA	<0.025	NA	NA	NA	NA	NA	NA	NA	0.230
Methane	NA	36.0	20.0	NA	NA	17.0	NA	NA	NA	NA	NA	NA	NA	30.0
Total Organic Carbon (mg/L)	NA	3.6	4.3	NA	NA	3.0	NA	NA	NA	NA	NA	NA	NA	3.7

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	PZ-100 (continued)												PZ-101	
Sample Date	**9/25/07**	**12/3/07**	**3/12/08**	**9/24/08**	**2/25/09**	**9/11/09**	**8/17/10**	**12/2/10**	**6/2/11**	**6/27/12**	**6/12/13**	**7/8/14**	**9/24/07**	**12/03/07**
Field Parameters														
Dissolved oxygen (mg/L)	0.29	0.22	2.31	0.68	0.51	3.77	4.41	1.59	2.16	0.14	4.00	1.13	0.77	0.58
ORP (mV)	-103.4	-75.8	-65.5	-69.0	-54.1	85.4	-253.5	18.6	-48.6	51.8	42.7	-37.8	18.2	-23.2

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	PZ-101										
Sample Date	03/12/08	9/24/08	2/25/09	9/11/09	8/17/10	12/2/10	6/2/11	09/11/12	06/12/13	07/09/14	
VOCs											
Benzene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	
n-Butyl-benzene	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.40	<0.50	
Chloromethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.39	<0.50	
1,1-Dichloroethane	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.28	<0.24	
1,2-Dichloroethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.17	
1,1-Dichloroethene	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.43	<0.41	
cis-1,2-Dichloroethene	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.26	
trans-1,2-Dichloroethene	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.26	
Ethylbenzene	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.50	
Isopropylbenzene	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.34	<0.14	
Methylene Chloride	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.36	<0.23	
Naphthalene	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<2.5	<2.5	
n-Propylbenzene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	
Styrene	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.35	<0.50	
Tetrachloroethene	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50	
Toluene	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.44	<0.50	
Trichloroethene	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.43	<0.33	
1,2,4-Trimethylbenzene	<0.97	<0.81	<0.81	<0.81	<0.97	<0.81	<0.81	<0.97	<0.57	<0.50	
1,3,5-Trimethylbenzene	<0.83	<0.86	<0.86	<0.86	<0.83	<0.86	<0.86	<0.83	<2.5	<0.50	
Trimethylbenzenes	<1.8	<0.45	<0.45	<0.45	NA	<0.45	<0.45	<1.8	<3.07	<1.0	
Vinyl Chloride	<0.18	<0.67	<0.67	<0.67	<0.18	<0.67	<0.67	<0.18	<0.18	<0.18	
Xylene, m+p	<1.8	<0.48	<0.48	<0.48	<1.8	<0.48	<0.48	<1.8	<0.82	<1.0	
Xylene, o	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.50	<0.50	
Xylenes	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.32	<1.50	
Laboratory Parameters											
Ethane	0.160	NA	NA	0.160	NA	NA	NA	NA	NA	NA	
Ethene	0.030	NA	NA	0.030	NA	NA	NA	NA	NA	NA	
Methane	15.0	NA	NA	14.0	NA	NA	NA	NA	NA	NA	
Total Organic Carbon (mg/L)	3.9	NA	NA	3.1	NA	NA	NA	NA	NA	NA	

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Table A.1
Goundwater Analytical Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Well ID	PZ-101										
Sample Date	**03/12/08**	**9/24/08**	**2/25/09**	**9/11/09**	**8/17/10**	**12/2/10**	**6/2/11**	**09/11/12**	**06/12/13**	**07/09/14**	
Field Parameters											
Dissolved oxygen (mg/L)	0.70	0.61	0.74	3.14	2.40	2.62	4.42	0.57	2.92	0.47	
ORP (mV)	-88.6	89	89.4	174.3	-281.9	59.6	17.4	69.1	45.3	-31.5	

General Note:
Results reported in micrograms per liter (µg/L) unless otherwise indicated.

Acronyms and Abbreviations:
Italics = Concentration exceeds the NR 140 Preventive Action Limti (PAL).
BOLD = Concentration exceeds the NR 140 Enforcement Standard (ES).
* = Duplicate of AMW-12.
ES = Enforcement Standard.
mg/L = Milligrams per liter.
J, Q = Concentration detected between the laboratory limit of detection and limit of quantitation.
mV = Millivolts.
N = Spiked sample recovery not within control limits.
NA = Sample not analyzed for this parameter.
ORP = Oxidation reduction potential.
PAL = Preventive Action Limit.
QX = Analysis occurred following extremely high PCE sample, carryover was observed.

Table A.2
Soil Analytical Results Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)											
	Non-Industrial		AGM-GP-100		AGM-GP-101		AGM-GP-102		AGM-GP-103		AGM-GP-105	
Sample Depth	Direct	Soil-to-	0-2'	6-8'	0-2'	6-8'	0-2'	6-8'	0-2'	6-8'	2-4'	6-8'
Sample Date	Contact	Groundwater	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	11/24/09	11/24/09
Benzene	1,490	5.12	<25	<250	<25	<25	<25	<50	<25	<25	<125	<1,250
Ethylbenzene	7,470	1,570	<25	<250	<25	<25	<25	<50	<25	<25	<125	<1,250
Naphthalene	5,150	658.18	<25	<250	172	<25	134	<50	<25	<25	<125	<1,250
Tetrachloroethene	30,700	4.5	*4,220*	***46,700***	*1,690*	*1,240*	*1,380*	*10,200*	*33.1*	<25	*25,200*	***368,000***
Toluene	818,000	1,107.2	<25	<250	65.1	<25	<25	<50	<25	<25	<125	<1,250
Trichloroethene	1,260	3.6	<25	<250	<25	<25	<25	<50	<25	<25	<125	<1,250
Trimethylbenzenes	182,000	--	<25	<250	<25	<25	<25	<50	<25	<25	<125	<1,250
Xylenes	258,000	3,940	<25	<500	<50	<50	<50	<100	<50	<50	<250	<2500

General Notes:

Only analytes detected in soil samples are presented.
RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.
Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.
Italics = Concentration exceeds soil to groundwater pathway RCLs.
Bold = Concentration exceeds Non-Industrial Direct contact RCLs.
NA = Not analyzed.
RCLs = Residual Contaminate Levels.

Table A.2
Soil Analytical Results Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)											
	Non-Industrial Direct Contact	Soil-to-Groundwater	AGM-GP-106		AGM-GP-107		AMW-14		PZ-101	AMW-13	ABE-6	ABW-6
Sample Depth			2-4'	6-8'	2-4'	6-8'	4-6'	8-10'	4-6'	4-6'	6'	6'
Sample Date			11/24/09	11/24/09	11/24/09	11/24/09	9/5/07	9/5/07	9/5/07	9/5/07	7/18/06	7/18/06
Benzene	1,490	5.12	<50	<62.5	<25	<25	NA	NA	NA	NA	NA	NA
Ethylbenzene	7,470	1,570	<50	<62.5	<25	<25	NA	NA	NA	NA	NA	NA
Naphthalene	5,150	658.18	<50	<62.5	<25	<25	NA	NA	NA	NA	NA	NA
Tetrachloroethene	30,700	4.5	*6,170*	*9,310*	*1,570*	*4,160*	<25	<25	<25	<25	*2,000*	*4,300*
Toluene	818,000	1,107.2	<50	<62.5	<25	<25	NA	NA	NA	NA	NA	NA
Trichloroethene	1,260	3.6	<50	*240*	<25	<25	<25	<25	<25	<25	*43*	*190*
Trimethylbenzenes	182,000	--	<50	<62.5	<25	<25	NA	NA	NA	NA	NA	NA
Xylenes	258,000	3,940	<100	<125	<50	<50	NA	NA	NA	NA	NA	NA

General Notes:

Only analytes detected in soil samples are presented.
RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.
Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.
Italics = Concentration exceeds soil to groundwater pathway RCLs.
Bold = Concentration exceeds Non-Industrial Direct contact RCLs.
NA = Not analyzed.
RCLs = Residual Contaminate Levels.

Table A.2
Soil Analytical Results Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)											
	Non-Industrial Direct Contact	Soil-to-Groundwater	AES-4	ANS-4	AWS-4	BB-6	BES-4	BNS-4	BSS-4	BWS-4	GP-1	GP-4
Sample Depth			4'	4'	4'	6'	4'	4'	4'	4'	4-6'	4-6'
Sample Date			7/18/06	7/18/06	7/18/06	7/18/06	7/18/06	7/18/06	7/18/06	7/18/06	5/22/01	5/22/01
Benzene	1,490	5.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	7,470	1,570	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5,150	658.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	30,700	4.5	*550*	*480*	*270*	*190*	*200*	*310*	*250*	*160*	*130*	*3,700*
Toluene	818,000	1,107.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1,260	3.6	<25	<25	<25	<25	<25	<25	<25	<25	NA	NA
Trimethylbenzenes	182,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes	258,000	3,940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:

Only analytes detected in soil samples are presented.
RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.
Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.
Italics = Concentration exceeds soil to groundwater pathway RCLs.
Bold = Concentration exceeds Non-Industrial Direct contact RCLs.
NA = Not analyzed.
RCLs = Residual Contaminate Levels.

Table A.2
Soil Analytical Results Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)												
	Non-Industrial Direct Contact	Soil-to-Groundwater	GP-5	GP-23	B100	B300	B400	B500	B600	B700	B800	B900	B1500
Sample Depth			4-6'	4-6'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'
Sample Date			11/9/01	11/9/01	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99
Benzene	1,490	5.12	NA	NA	*37*	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	1,570	NA	NA	*2,900*	<25	130	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	658.18	NA	NA	<25	*1,300*	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	4.5	*1,700*	*230*	<25	<25	<25	<25	<25	<25	<25	*1,400*	<25
Toluene	818,000	1,107.2	NA	NA	<25	45	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes	182,000	--	NA	NA	<25	6,700	<25	<25	<25	<25	<25	<25	<25
Xylenes	258,000	3,940	NA	NA	410	<75	1,510	<75	<75	<75	<75	<75	<75

General Notes:

Only analytes detected in soil samples are presented.
RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.
Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.
Italics = Concentration exceeds soil to groundwater pathway RCLs.
Bold = Concentration exceeds Non-Industrial Direct contact RCLs.
NA = Not analyzed.
RCLs = Residual Contaminate Levels.

Table A.3
Residual Soil Contamination Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)										
	Non-Industrial Direct Contact	Soil-to-Groundwater	AGM-GP-101		AGM-GP-103		AMW-14		PZ-101	AMW-13	ABE-6
Sample Depth			0-2'	6-8'	0-2'	6-8'	4-6'	8-10'	4-6'	4-6'	6'
Sample Date			8/4/09	8/4/09	8/4/09	8/4/09	9/5/07	9/5/07	9/5/07	9/5/07	7/18/06
Benzene	1,490	5.12	<25	<25	<25	<25	NA	NA	NA	<25	<25
Ethylbenzene	7,470	1,570	<25	<25	<25	<25	NA	NA	NA	<25	<25
Methylene Chloride	60,700	2.6	<25	<25	<25	<25	NA	NA	NA	<25	<25
Naphthalene	5,150	658.18	172	<25	<25	<25	NA	NA	NA	<25	<25
Tetrachloroethene	30,700	4.5	*1,690*	*1,240*	*33.1*	<25	<25	<25	<25	<25	*2,000*
Toluene	818,000	1,107.2	65.1	<25	<25	<25	NA	NA	NA	<25	<25
Trichloroethene	1,260	3.6	<25	<25	<25	<25	<25	<25	<25	<25	*43*
Trimethylbenzenes	182,000	--	<25	<25	<25	<25	NA	NA	NA	<25	<25
Xylenes	258,000	3,940	<50	<50	<50	<50	NA	NA	NA	<50	<50

General Notes:

Only analytes detected in soil samples are presented.

RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.

Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.

Italics = Concentration exceeds soil to groundwater pathway RCLs.

NA = Not analyzed.

RCLs = Residual Contaminate Levels.

Table A.3
Residual Soil Contamination Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring Sample Depth Sample Date	Wisconsin Soil Residual Contaminant Levels (RCLs)		ABW-6 6' 7/18/06	AES-4 4' 7/18/06	ANS-4 4' 7/18/06	AWS-4 4' 7/18/06	BB-6 6' 7/18/06	BES-4 4' 7/18/06	BNS-4 4' 7/18/06	BSS-4 4' 7/18/06	BWS-4 4' 7/18/06
	Non-Industrial Direct Contact	Soil-to-Groundwater									
Benzene	1,490	5.12	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	1,570	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	2.6	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	5,150	658.18	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	4.5	*4,300*	*550*	*480*	*270*	*190*	*200*	*310*	*250*	*160*
Toluene	818,000	1,107.2	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	3.6	*190*	<25	<25	<25	<25	<25	<25	<25	<25
Trimethylbenzenes	182,000	--	<25	<25	<25	<25	<25	<25	<25	<25	<25
Xylenes	258,000	3,940	<50	<50	<50	<50	<50	<50	<50	<50	<50

General Notes:

Only analytes detected in soil samples are presented.

RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.

Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.

Italics = Concentration exceeds soil to groundwater pathway RCLs.

NA = Not analyzed.

RCLs = Residual Contaminate Levels.

Table A.3
Residual Soil Contamination Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring	Wisconsin Soil Residual Contaminant Levels (RCLs)									
	Non-Industrial Direct Contact	Soil-to-Groundwater	GP-1	GP-23	B100	B300	B500	B600	B700	B800
Sample Depth			4-6'	4-6'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'	2.5-4.5'
Sample Date			5/22/01	11/9/01	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99	12/2/99
Benzene	1,490	5.12	<25	NA	*37*	<25	<25	<25	<25	<25
Ethylbenzene	7,470	1,570	<25	NA	*2,900*	<25	<25	<25	<25	<25
Methylene Chloride	60,700	2.6	<25	NA	*37*	<25	<25	<25	<25	<25
Naphthalene	5,150	658.18	<25	NA	<25	*1,300*	<25	<25	<25	<25
Tetrachloroethene	30,700	4.5	*130*	*230*	<25	<25	<25	<25	<25	<25
Toluene	818,000	1,107.2	<25	NA	<25	45	<25	<25	<25	<25
Trichloroethene	1,260	3.6	<25	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes	182,000	--	<25	NA	<25	6,700	<25	<25	<25	<25
Xylenes	258,000	3,940	<50	NA	410	<75	<75	<75	<75	<75

General Notes:

Only analytes detected in soil samples are presented.

RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.

Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.

Italics = Concentration exceeds soil to groundwater pathway RCLs.

NA = Not analyzed.

RCLs = Residual Contaminate Levels.

Table A.3
Residual Soil Contamination Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring Sample Depth Sample Date	Wisconsin Soil Residual Contaminant Levels (RCLs) Non-Industrial Direct Contact	 Soil-to-Groundwater	B1500 2.5-4.5' 12/2/99	Base-1 07/30/10	Base-2 08/04/10	Base-3 08/03/10	Base-4 08/03/10	Base-5 08/06/10	Base-6 08/06/10	NWALL-1 07/03/10
Benzene	1,490	5.12	<25	<62.5	<500	<25	<25	<25	<25	<25
Ethylbenzene	7,470	1,570	<25	<62.5	<500	<25	<25	<25	<25	<25
Methylene Chloride	60,700	2.6	<25	<62.5	*3,200*	<25	<25	*125*	*181*	<25
Naphthalene	5,150	658.18	<25	<62.5	<500	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	4.5	<25	*23,900*	*93,100*	*2,590*	<25	*68.8*	*1,710*	<25
Toluene	818,000	1,107.2	<25	<62.5	<500	<25	<25	<25	<25	<25
Trichloroethene	1,260	3.6	NA	*13,300*	<500	*127*	*136*	<25	<25	<25
Trimethylbenzenes	182,000	--	<25	<62.5	<500	<25	<25	<25	<25	<25
Xylenes	258,000	3,940	<75	<125	<1,000	<50	<50	<50	<50	<50

General Notes:

Only analytes detected in soil samples are presented.

RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.

Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.

Italics = Concentration exceeds soil to groundwater pathway RCLs.

NA = Not analyzed.

RCLs = Residual Contaminate Levels.

Table A.3
Residual Soil Contamination Table

University Cleaners
1608 University Avenue
Green Bay, Wisconsin

Boring Sample Depth Sample Date	Wisconsin Soil Residual Contaminant Levels (RCLs)								
	Non-Industrial Direct Contact	Soil-to-Groundwater	NWALL-2 08/03/10	EWALL-1 08/06/10	EWALL-2 08/06/10	SWALL-1 08/04/10	SWALL-2 08/06/10	WWALL-1 08/04/10	WWALL-2 08/04/10
Benzene	1,490	5.12	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	7,470	1,570	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	60,700	2.6	<25	*167*	*142*	*146*	*160*	<25	<25
Naphthalene	5,150	658.18	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	30,700	4.5	<25	<25	<25	*47.4*	<25	<25	*44.5*
Toluene	818,000	1,107.2	<25	<25	<25	<25	<25	<25	<25
Trichloroethene	1,260	3.6	<25	<25	<25	<25	<25	<25	<25
Trimethylbenzenes	182,000	--	<25	<25	<25	<25	<25	<25	<25
Xylenes	258,000	3,940	<50	<50	<50	<50	<50	<50	<50

General Notes:

Only analytes detected in soil samples are presented.

RCLs for Trimethylbenzene is for 1,2,4-Trimethylbenzene, the lower RCLs of the trimethylbenzenes.

Results reported in micrograms per kilogram (µg/kg)

Acronyms and Abbreviations:

-- = Screening levels not available.

Italics = Concentration exceeds soil to groundwater pathway RCLs.

NA = Not analyzed.

RCLs = Residual Contaminate Levels.

Table A.6.
Well Elevation Elevations

University Cleaners
Green Bay, Wisconsin

Monitoring Well	Date	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft TOC)	Water Level Elevation (ft msl)
MW-1	12/11/2006	108.49	11.67	96.82 - 106.82	6.54	101.95
	3/6/2007				6.73	101.76
	6/12/2007				6.2	102.29
	9/24/2007				6.95	101.54
	12/3/2007				6.1	102.39
	3/11/2008				6.43	102.06
	9/23/2008				6.01	102.48
	2/23/2009				5.98	102.51
	9/9/2009				6.32	102.17
	8/16/2010				6.02	102.47
	11/30/2010				6.22	102.27
	5/31/2011				5.62	102.87
	6/26/2012				5.85	102.64
	6/10/2013				5.82	102.67
	7/8/2014				5.77	102.72
MW-5	12/11/2006	107.72	14.19	93.53 - 103.53	5.87	101.85
	3/6/2007				5.86	101.86
	6/12/2007				5.6	102.12
	9/24/2007				5.84	101.88
	12/3/2007				--	--
	3/11/2008				5.27	102.45
	9/23/2008				6.04	101.68
	2/23/2009				5.62	102.10
	9/9/2009				6.02	101.70
	8/16/2010				4.95	102.77
	11/30/2010				5.68	102.04
	5/31/2011				4.89	102.83
	6/26/2012				5.55	102.17
	6/10/2013				5.15	102.57
	7/8/2014				5.09	102.63
MW-200	12/11/2006	108.18	12.57	95.61 - 105.61	--	--
	3/6/2007				6.36	101.82
	6/12/2007				5.81	102.37
	9/24/2007				5.96	102.22
	12/3/2007				6.16	102.02
	3/11/2008				5.59	102.59
	9/23/2008				6.24	101.94
	2/23/2009				6.01	102.17
	9/9/2009				6.23	101.95
	8/16/2010				5.02	103.16
	11/30/2010				5.82	102.36
	5/31/2011				5.02	103.16
	9/11/2012				5.98	102.20
	6/10/2013				5.45	102.73
	7/8/2014				5.37	102.81
MW-500	12/11/2006	107.99	12.53	95.46 - 105.46	6.06	101.93
	3/6/2007				6.18	101.81
	6/12/2007				5.76	102.23
	9/24/2007				5.99	102.00
	12/3/2007				6.16	101.83
	3/11/2008				5.61	102.38

Footnotes on Page 3.

Table A.6.
Well Elevation Elevations

University Cleaners
Green Bay, Wisconsin

Monitoring Well	Date	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft TOC)	Water Level Elevation (ft msl)
MW-500 (continued)	9/23/2008	107.99	12.53	95.46 - 105.46	6.21	101.78
	2/23/2009				5.97	102.02
	9/9/2009				6.21	101.78
	8/16/2010				5.22	102.77
	11/30/2010				6.01	101.98
	5/31/2011				5.15	102.84
	9/11/2012				5.94	102.05
	6/10/2013				5.43	102.56
	7/8/2014				5.36	102.63
MW-800	12/11/2006	108.47	12.89	95.58 - 105.58	6.41	102.06
	3/6/2007				--	--
	6/12/2007				6.12	102.35
	9/24/2007				6.23	102.24
	12/3/2007				--	--
	3/11/2008				--	--
	9/23/2008				--	--
	2/23/2009				--	--
	9/9/2009				--	--
	8/16/2010				5.31	103.16
	11/30/2010				6.17	102.30
	5/31/2011				5.34	103.13
	9/11/2012				6.26	102.21
	6/10/2013				5.63	102.84
	7/8/2014				5.67	102.80
AMW-10	3/6/2007	108.37	12.95	95.39 - 105.39	6.53	101.84
	6/12/2007				5.86	102.51
	9/24/2007				6.06	102.31
	12/3/2007				6.26	102.11
	3/11/2008				5.68	102.69
	9/23/2008				6.33	102.04
	2/23/2009				6.03	102.34
	9/9/2009				--	--
	8/16/2010				5.29	103.08
	11/30/2010				6.04	102.33
	5/31/2011				5.43	102.94
	6/26/2012				6.12	102.25
	6/10/2013				5.64	102.73
	7/8/2014				5.74	102.63
AMW-11	3/6/2007	108.63	13.45	95.18 - 105.18	6.67	101.96
	6/12/2007				6.07	102.56
	9/24/2007				6.3	102.33
	12/3/2007				6.5	102.13
	3/11/2008				5.81	102.82
	9/23/2008				6.54	102.09
	2/23/2009				6.29	102.34
	9/9/2009				6.52	102.11
AMW-12	3/6/2007	108.40	12.81	95.57 - 105.57	6.76	101.64
	6/12/2007				6.3	102.10
	9/24/2007				6.39	102.01
	12/3/2007				6.53	101.87
	3/11/2008				5.94	102.46

Footnotes on Page 3.

Table A.6.
Well Elevation Elevations

University Cleaners
Green Bay, Wisconsin

Monitoring Well	Date	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft TOC)	Water Level Elevation (ft msl)
AMW-12 (continued)	9/23/2008	108.40	12.81	95.57 - 105.57	6.7	101.70
	2/23/2009				6.46	101.94
	9/9/2009				6.69	101.71
	8/16/2010				5.58	102.82
	11/30/2010				6.36	102.04
	5/31/2011				5.54	102.86
	6/26/2012				6.28	102.12
	6/10/2013				5.92	102.48
	7/8/2014				5.87	102.53
AMW-13	9/24/2007	107.87	13.28	94.46 - 104.46	5.89	101.98
	12/3/2007				6.06	101.81
	3/11/2008				5.32	102.55
	9/23/2008				6.15	101.72
	2/23/2009				5.78	102.09
	9/9/2009				6.22	101.65
	8/16/2010				4.99	102.88
	11/30/2010				5.84	102.03
	5/31/2011				4.95	102.92
	6/26/2012				5.81	102.06
	6/10/2013				5.32	102.55
	7/8/2014				5.32	102.55
AMW-14	9/24/2007	108.01	13.37	94.55 - 104.55	5.88	102.13
	12/3/2007				6.02	101.99
	3/11/2008				5.33	102.68
	9/23/2008				6.08	101.93
	2/23/2009				5.71	102.30
	9/9/2009				6.12	101.89
	8/16/2010				4.97	103.04
	11/30/2010				5.79	102.22
	5/31/2011				4.91	103.10
	6/26/2012				5.73	102.28
	6/10/2013				5.23	102.78
	7/8/2014				5.19	102.82
AMW-15	9/24/2007	107.80	13.37	94.29 - 104.29	5.8	102.00
	12/3/2007				6.1	101.70
	3/11/2008				5.42	102.38
	9/23/2008				6.04	101.76
	2/23/2009				5.71	102.09
	9/9/2009				6.02	101.78
	8/16/2010				4.99	102.81
	11/30/2010				5.79	102.01
	5/31/2011				4.97	102.83
	9/11/2012				5.75	102.05
	6/10/2013				5.29	102.51
	7/8/2014				5.21	102.59
AMW-16	9/23/2008	108.44			6.82	101.62
	2/23/2009				6.39	102.05
	9/9/2009				6.52	101.92
	8/16/2010				5.59	102.85

Footnotes on Page 3.

Table A.6.
Well Elevation Elevations

University Cleaners
Green Bay, Wisconsin

Monitoring Well	Date	Top of Casing Elevation (ft msl)	Total Well Depth (ft msl)	Well Screen Elevation (ft msl)	Depth to Water (ft TOC)	Water Level Elevation (ft msl)
AMW-16	11/30/2010	108.44			6.23	102.21
	5/31/2011				5.60	102.84
	6/26/2012				5.93	102.51
	6/10/2013				5.89	102.55
	7/8/2014				5.87	102.57
PZ-100	12/11/2006	108.43	28.85	79.58 - 84.58	6.5	101.93
	3/6/2007				7.18	101.25
	6/12/2007				6.8	101.63
	9/24/2007				6.32	102.11
	12/3/2007				6.33	102.10
	3/11/2008				5.46	102.97
	9/23/2008				6.04	102.39
	2/23/2009				6.95	101.48
	9/9/2009				6.29	102.14
	8/16/2010				6.36	102.07
	11/30/2010				6.61	101.82
	5/31/2011				5.40	103.03
	6/26/2012				5.64	102.79
	6/10/2013				5.80	102.63
	7/8/2014				5.83	102.60
PZ-101	9/24/2007	108.40	28.65	79.75 - 84.75	5.9	102.50
	12/3/2007				6.32	102.08
	3/11/2008				5.46	102.94
	9/23/2008				6.2	102.20
	2/23/2009				5.97	102.43
	9/9/2009				6.22	102.18
	8/16/2010				5.03	103.37
	11/30/2010				5.68	102.72
	5/31/2011				4.99	103.41
	9/11/2012				5.86	102.54
	6/10/2013				5.38	103.02
	7/8/2014				5.28	103.12

Acronyms and Abbreviations:
-- = Not sampled.
ft = Feet.
ft msl = Feet above mean sea level.
ft TOC = Feet below top of casing.
NA = Not available.

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	University Cleaners	Green Bay	Wisconsin	BRRTS No. =	02-05-233555	Well Number =	MW-1

	Compound	PCE					
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	13-Jun-01	2.90					
2	7-Aug-01	2.30					
3	17-Dec-01	0.84					
4	21-Nov-03	5.90					
5	27-Apr-04	3.80					
6	9-Aug-04	7.40					
7	12-Dec-06	3.30					
8	13-Mar-07	1.10					
9	12-Jun-07	2.50					
10							
	S =	0	0	0	0	0	0
	n =	9	0	0	0	0	0
	Average =	3.337777778	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	2.135964523	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.639936109	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Increasing Trend (80% Confidence)		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Decreasing Trend (80% Confidence)		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Undetermined Stable Trend, CV<=1		YES	ERROR	ERROR	ERROR	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Error Check, OK if Blank			ERR, n < 4	ERR, n < 4	ERR, n < 4	ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	ERROR	ERROR	ERROR	ERROR	ERROR

Data Entry By =	BJM	Date =	27-Jun-07	Checked By =	

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State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	University Cleaners	Green Bay	Wisconsin	BRRTS No. =	02-05-233555	Well Number =	MW-500

Event Number	Sampling Date (most recent last)	Compound: PCE Concentration (leave blank if no data)	Compound: TCE Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	13-Jun-01	430.00	3.10				
2	7-Aug-01	**650.00**	10.00				
3	17-Dec-01	**500.00**	4.30				
4	**21-Nov-03**	44.00	7.10				
5	27-Apr-04	24.00	**4.80**				
6	12-Dec-06	180.00	7.90				
7	13-Mar-07	**110.00**	**5.00**				
8	12-Jun-07	220.00	6.60				
9							
10							
	S =	-8	6	0	0	0	0
	n =	8	8	0	0	0	0
	Average =	269.75	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	230.1215517	2.23095111	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.853091943	0.36572969	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Increasing Trend (80% Confidence)		NO	NO	ERROR	ERROR	ERROR	ERROR
Decreasing Trend (80% Confidence)		YES	NO	ERROR	ERROR	ERROR	ERROR
Undetermined Stable Trend, CV<=1		NO	YES	ERROR	ERROR	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	ERROR	ERROR	ERROR	ERROR
Error Check, OK if Blank				ERR, n < 4	ERR, n < 4	ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	**ERROR**	**ERROR**	**ERROR**	**ERROR**

Data Entry By =	BJM	Date =	28-Jun-07	Checked By =	

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State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	University Cleaners	Green Bay	Wisconsin	BRRTS No. =	02-05-233555	Well Number =	AMW-10

	Compound	PCE	TCE	cis-1,2-DCE			
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	24-Aug-06	31	150	130			
2	11-Dec-06	20	100	74			
3	13-Mar-07	25	80	56			
4	13-Jun-07	23	91	37			
5	24-Sep-07	17.00	130.00	45.00			
6	3-Dec-07	20.00	100.00	43.00			
7	11-Mar-08	8.00	70.00	29.00			
8	23-Sep-08	17.60	84.90	62.40			
9	23-Feb-09	8.50	27.50	16.60			
10							
	S =	-23	-19	-22	0	0	0
	n =	9	9	9	0	0	0
	Average =	18.9	92.6	54.77777778	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	7.374957627	34.9507153	33.09054917	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.390209398	0.37743753	0.604087105	#DIV/0!	#DIV/0!	#DIV/0!
Increasing Trend (80% Confidence)		NO	NO	NO	ERROR	ERROR	ERROR
Decreasing Trend (80% Confidence)		YES	YES	YES	ERROR	ERROR	ERROR
Undetermined Stable Trend, CV<=1		NO	NO	NO	ERROR	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	ERROR	ERROR	ERROR
Error Check, OK if Blank					ERR, n < 4	ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	ERROR	ERROR	ERROR

Data Entry By =	BJM	Date =	28-Jun-07	Checked By =	

A.7

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (5/2000)

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	University Cleaners	Green Bay	Wisconsin	BRRTS No. =	02-05-233555	Well Number =	AMW-11

	Compound	PCE					
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	24-Aug-06	7,600.00					
2	11-Dec-06	**9,000.00**					
3	13-Mar-07	7,200.00					
4	13-Jun-07	6,500.00					
5							
6							
7							
8							
9							
10							
	S =	-4	0	0	0	0	0
	n =	4	0	0	0	0	0
	Average =	7575	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	1053.169819	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	0.139032319	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Increasing Trend (80% Confidence)		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Decreasing Trend (80% Confidence)		YES	ERROR	ERROR	ERROR	ERROR	ERROR
Undetermined Stable Trend, CV<=1		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Undetermined Non-Stable Trend, CV>1		NO	ERROR	ERROR	ERROR	ERROR	ERROR
Error Check, OK if Blank			ERR, n < 4	ERR, n < 4	ERR, n < 4	ERR, n < 4	ERR, n < 4
Stable or Decreasing Trend at 80% Confidence Level		YES	**ERROR**	**ERROR**	**ERROR**	**ERROR**	**ERROR**

Data Entry By =	BJM	Date =	28-Jun-07	Checked By =	

A.7

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name :	University Cleaners			BRRTS No. =	02-05-233555	Well Number =	AMW-11
	Compound ->	cis-1,2-dce	PCE		TCE		
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	24-Aug-07	<42	5,900.00		32.00		
2	3-Dec-07	<83	7,200.00		88.00		
3	11-Mar-08	<20.8	3,450.00		38.80		
4	23-Sep-08	<16.5	4,010.00		48.90		
5	23-Feb-09	203.00	6,090.00		368.00		
6							
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	ERROR	0.0	0.0	6.0	0.0	0.0
	Number of Rounds (n) =	5	5	0	5	0	0
	Average =	ERROR	5330.00	#DIV/0!	115.14	#DIV/0!	#DIV/0!
	Standard Deviation =	ERROR	1555.330	#DIV/0!	143.006	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	ERROR	0.292	#DIV/0!	1.242	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected		DATA ERR		n<4		n<4	n<4
Trend ≥ 80% Confidence Level		ERROR	No Trend	n<4	INCREASING	n<4	n<4
Trend ≥ 90% Confidence Level		ERROR	No Trend	n<4	No Trend	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		ERROR ERROR	CV <= 1 STABLE	n<4 n<4	NA	n<4 n<4	n<4 n<4
	Data Entry By =	PAL	Date =	2-Apr-09	Checked By =		

A-7

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

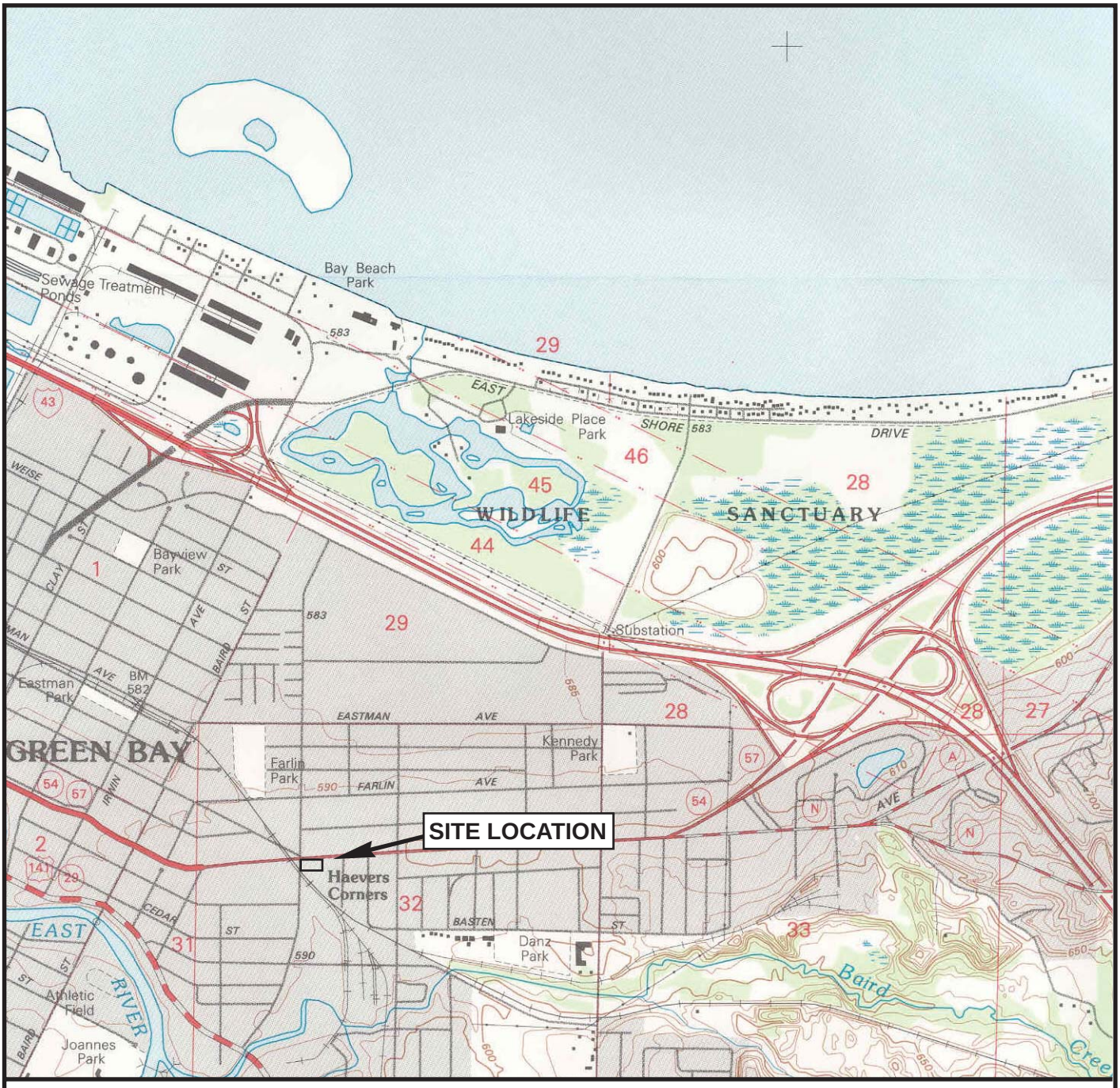
Site Name :	University Cleaners			BRRTS No. =	02-05-233555	Well Number =	AMW-15
	Compound ->	cis-1,2-dce	PCE	VC	TCE	Arsenic	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	24-Aug-07	14.00	3.00	0.35	10.00		
2	3-Dec-07	35.00	130.00	0.87	220.00		
3	11-Mar-08	53.40	269.00	1.10	197.00		
4	23-Sep-08	340.00	90.60	0.64	56.50		
5	23-Feb-09	161.00	103.00	0.99	130.00		
6							
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	8.0	2.0	4.0	0.0	0.0	0.0
	Number of Rounds (n) =	5	5	5	5	0	0
	Average =	120.68	119.12	0.79	122.70	#DIV/0!	#DIV/0!
	Standard Deviation =	135.070	96.358	0.299	89.617	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	1.119	0.809	0.379	0.730	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected						n<4	n<4
Trend ≥ 80% Confidence Level		INCREASING	No Trend	No Trend	No Trend	n<4	n<4
Trend ≥ 90% Confidence Level		INCREASING	No Trend	No Trend	No Trend	n<4	n<4
Stability Test, If No Trend Exists at 80% Confidence Level		NA	CV <= 1 STABLE	CV <= 1 STABLE	CV <= 1 STABLE	n<4 n<4	n<4 n<4
	Data Entry By =	PAL	Date =	2-Apr-09	Checked By =		

A.7

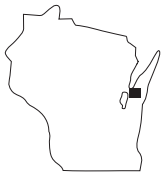
Attachment B
Maps and Figures

Attachments:

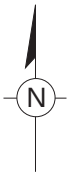
- B.1.a Location Map – Included
- B.1.b Detailed Site Map – Included
- B.1.c RR Sites Map – Included
- B.2.a Soil Contamination – Included
- B.2.b Residual Soil Contamination – Included
- B.3.a Geologic Cross-Section Figure – Included
- B.3.b Groundwater Isoconcentration – Included
- B.3.c.1 Groundwater Flow Direction (May 31, 2011) – Included
- B.3.c.2 Groundwater Flow Direction (July 8, 2014) – Included
- B.3.d Monitoring Wells – Included.
- B.4.a Vapor Intrusion Map – Not included. There is no risk for vapor intrusion at the Site so no map has been created.
- B.4.b Other media of concern – Not included. There are no other media of concern at the Site
- B.5 Structural Impediment Photos – Not included. There are no structural impediments limiting the investigation or remediation at the Site.



SOURCE: USGS 7.5 Minute Topographic Map, GREEN BAY EAST, WISCONSIN Quadrangle, 1992



WISCONSIN



0 1000 2000 4000

SCALE IN FEET

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

SITE LOCATION MAP

ARCADIS

FIGURE
B.1.a

20OCT11\ENVIRONMENT\NDLMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\SITE LOC.AI

LEGEND

- PROPERTY LINE
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006
- NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
- HAZARDOUS SOIL EXCAVATION TO 8'bgs

AMW-16
MW-5
UNIVERSITY AVENUE
B700
AMW-15
PZ-101
MW-500/B500
B300
B600
AMW-12
MW-400/B400
BNS-4
AREA B
BES-4
BWS-4
BB-6
BSS-4
PZ-100/B100
AGM-GP-103
NWALL-2
NWAM-1
SVP-1
FOUNDATION LEFT IN PLACE
AMW-14
BASE-5
MW-200
WWALL-1
BASE-3
SIGN BASE
EWALL-1
GP-1
AGM-GP-101
BASE-1
AGM-GP-105
GP-5
AGM-GP-102
FORMER UST
MW-1
SVP-2
AMW-13
AGM-GP-106
BASE-2
AGM-GP-107
EWALL-2
AGM-GP-100
WWALL-2
BASE-4
AMW-11
GP-23
BASE-6
ANS-4
SWALL-1
SWALL-2
AMW-10
GP-4
ABE-6
B1500
MW-900/B900
AES-4
AREA A
AWS-4
ABW-6
AS-S-4
MW-800/B800

N

0 10 20

APPROXIMATE SCALE IN FEET

08JUN15\ENVIRONMENT\CK\LMB
SATREC\WI\1133\UNIVERSITY\GRAPHICS\SOIL EXCAVATIONS.AI

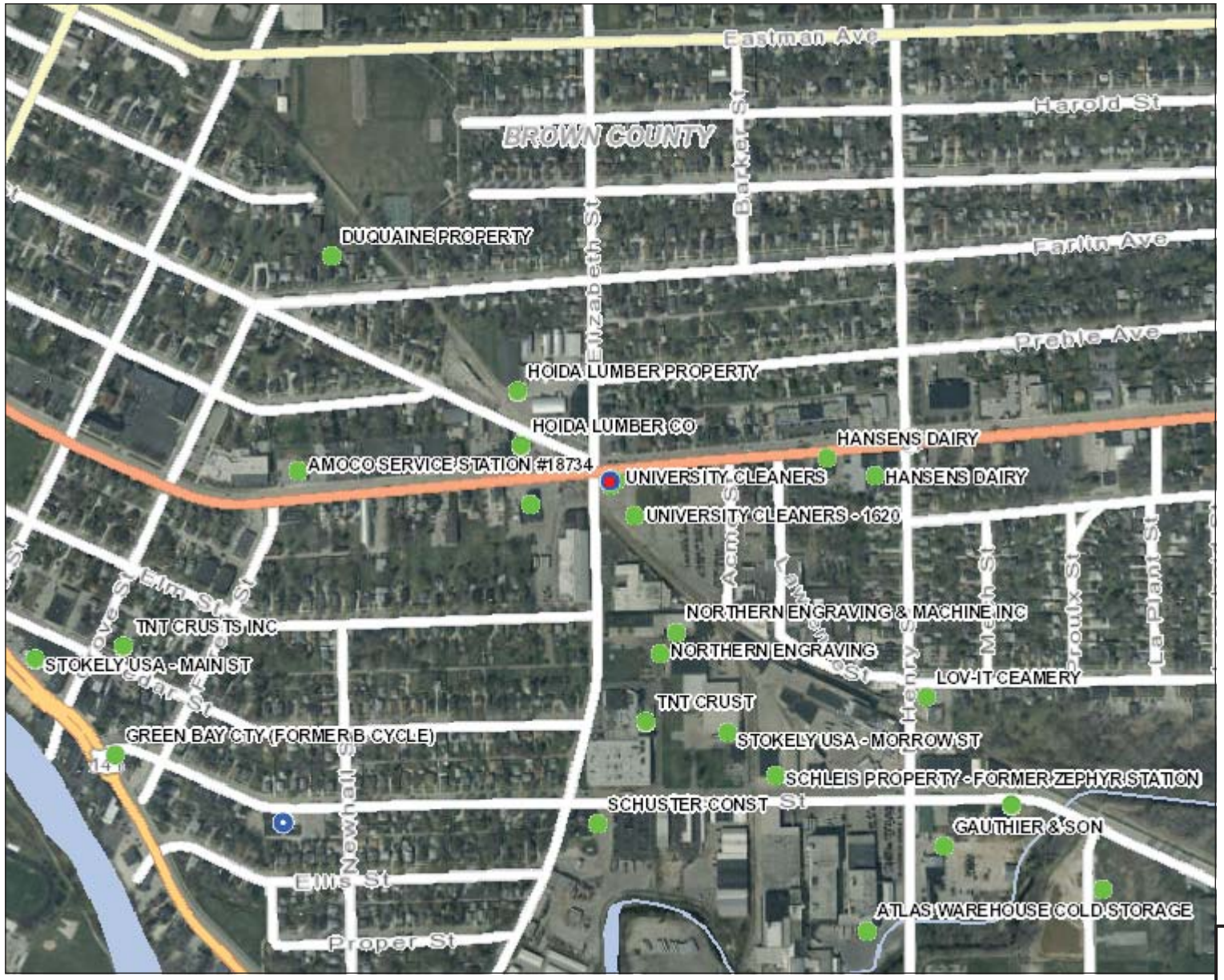
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

DETAILED SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
B.1.b

University Cleaners
1608 University Avenue, Green Bay, WI



Legend

- Open Site (ongoing cleanup)
- Closed Site (completed cleanup)
- Rivers and Streams
- Open Water
- Cities
- Villages

0.2 0 0.12 0.2 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,629

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made aregarding accuracy, applicability for a particular use, completemenss, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

RR SITE MAP

ARCADIS

FIGURE
B.1.c

28JAN15\ENVIRONMENT\CB\LMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\RR FIGURE.PDF

LEGEND

- PROPERTY LINE
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006

CVOC	Chlorinated Volatile Organic Compound
PCE	Tetrachloroethene
TCE	Trichloroethene
B	Benzene

GW (4.5) — EXTENT OF PCE SOIL TO GROUNDWATER PATHWAY EXCEEDANCES IN SOIL

Note: Constituant concentrations are reported in micrograms per kilogram (µg/Kg) unless otherwise noted.

AMW-16

MW-5

UNIVERSITY AVENUE

B700 12/2/99 (2.5-4.5') PCE <25

BNS-4 7/18/06 (2.5-4.5') PCE <25

BES-4 7/18/06 (4-6') PCE 200

PZ-101 9/5/07 (4-6') PCE <25

B500 12/2/99 (2.5-4.5') PCE <25

B400 12/2/99 (2.5-4.5') PCE <25

B700

AMW-12

BNS-4

AMW-15

PZ-101

MW-500/B500

B300

B600

B600 12/2/99 (2.5-4.5') PCE <25

MW-400/B400

AGM-GP-103 8/4/09 (0-2') (6-8') PCE 33.1 <25

AREA B

BWS-4

BES-4

BB-6 7/18/06 (6') PCE 190

B300 12/2/99 (2.5-4.5') PCE <25

AGM-GP-103

AMW-14

AMW-14 9/5/07 (4-6') (8-10') PCE <25 <25

BWS-4 7/18/06 (4') PCE 160

BB-6

BSS-4

PZ-100/B100

AGM-GP-102 8/4/09 (0-2') (6-8') PCE 1,380 10,200

BSS-4 7/18/06 (4') PCE 250

B100 12/2/99 (2.5-4.5') PCE <25 B 37

MW-200

AGM-GP-101

GP-1

AGM-GP-101 8/4/09 (0-2') (6-8') PCE 1,690 1,240

SVP-1

AGM-GP-105 11/24/09 (2-4') (6-8') PCE 25,200 368,000

GP-5 11/9/01 (4-6') PCE 1,700

AGM-GP-107 11/24/09 (2-4') (6-8') PCE 1,570 4,160

1608 UNIVERSITY AVENUE FORMER STANDARD

AGM-GP-105

AGM-GP-102

GP-5

GP-1 5/22/01 (4-6') PCE 130

FORMER UST

SVP-2

MW-1

AGM-GP-106

AGM-GP-100

AGM-GP-107

AMW-13

AMW-13 9/5/07 (4-6') PCE <25 TCE <25

GP-23

AGM-GP-106 11/24/09 (2-4') (6-8') PCE 6,170 9,310 TCE ND 240

GP-4 5/22/01 (4-6') PCE 3,700

AMW-11

ANS-4 7/18/06 (4') PCE 550

GW (4.5)

GP-23 11/9/01 (4-6') PCE 230

ABE-6 7/18/06 (6') PCE 2,000 TCE 43

ANS-4

GP-4

ABE-6

B1500 12/2/99 (2.5-4.5') PCE 29

AMW-10

B1500

MW-900/B900

AREA A

AES-4

AGM-GP-100 8/4/09 (0-2') (6-8') PCE 4,220 46,700

AWS-4

ABW-6

AES-4 7/18/06 (4') PCE 550

AWS-4 7/18/06 (4') PCE 270

AS-S-4

AS-S-4 7/18/06 (4') PCE 260

B900 12/2/99 (2.5-4.5') PCE 1,400

MW-800/B800

ABW-6 7/18/06 (6') PCE 4,300 TCE 190

B800 12/2/99 (2.5-4.5') PCE <25

N

0 10 20

APPROXIMATE SCALE IN FEET

01JUL15\ENVIRONMENT\CK\LMB
SATREC\WI1133UNIVERSITY\GRAPHICS\VOC EXCEEDANCES.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

SOIL CONTAMINATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE **B.2.a**

LEGEND

- PROPERTY LINE
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006
- NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
- HAZARDOUS SOIL EXCAVATION TO 8'bgs

PCE Tetrachloroethene
TCE Trichloroethene

NOTE: Only detected constituents of concern are presented.

Constituent concentrations are reported in micrograms per kilograms (µg/kg).

GW (4.5) EXTENT OF PCE SOIL TO GROUNDWATER PATHWAY EXCEEDANCES IN SOIL

AMW-16

MW-5

UNIVERSITY AVENUE

AGM-GP-103 8/4/09 (0-2') (6-8') PCE 33.1 <25

B700 12/2/99 (2.5-4.5') PCE <25

BNS-4 7/18/06 (2.5-4.5') PCE 310 TCE <25

B300 12/2/99 (2.5-4.5') PCE <25

PZ-101 9/5/07 (4-6') PCE <25 TCE <25

B500 12/2/99 (2.5-4.5') PCE <25

BB-6 7/18/06 (6') PCE 190 TCE <25

BES-4 7/18/06 (4-6') PCE 200 TCE <25

B700

B300

PZ-101

AMW-15

B600

MW-500/B500

B600 12/2/99 (2.5-4.5') PCE <25

BASE-5 PCE 69 TCE <25

AMW-12

MW-400/B400

BNS-4

AREA B

BB-6

BES-4

B100 12/2/99 (2.5-4.5') PCE <25

NWALL-2 PCE <25 TCE <25

NWALL-1 PCE <25 TCE <25

FOUNDATION LEFT IN PLACE

AMW-14 9/5/07 (4-6') (8-10') PCE <25 <25 TCE <25 <25

BWS-4 7/18/06 (4') PCE 160 TCE <25

BWS-4

BSS-4

AGM-GP-103

NWALL-2

NWAM-1

PZ-100/B100

WWALL-1 PCE <25 TCE <25

WWALL-1

SVP-1

BASE-5

EWALL-1 PCE <25 TCE <25

BSS-4 7/18/06 (4') PCE 250 TCE <25

MW-200

AGM-GP-101

GP-1

BASE-3

BASE-3 PCE 2,590 TCE 127

BASE-1

BASE-1 PCE 23,900 TCE 13,300

SIGN BASE

EWALL-1

GP-1 5/22/01 (4-6') PCE 130

MW-1

AGM-GP-101 8/4/09 (0-2') (6-8') PCE 1,690 1,240

FORMER UST

BASE-2 PCE 93,100 TCE <500

SVP-2

GP-5

EWALL-2 PCE <25 TCE <25

AMW-13

BASE-2

EWALL-2

AMW-13 9/5/07 (4-6') PCE <25 TCE <25

WWALL-2 PCE 45 TCE <25

WWALL-2

BASE-4

SWALL-1 PCE 47 TCE <25

AMW-11

BASE-6

GP-23

BASE-4 PCE <25 TCE 136

ANS-4

SWALL-1

SWALL-2

BASE-6 PCE 1,700 TCE <125

GW (4.5)

GP-23 11/9/01 (4-6') PCE 230

B1500

AMW-10

GP-4

ABE-6

MW-900/B900

AES-4

ANS-4 7/18/06 (4') PCE 550 TCE <25

AWS-4

ABW-6

AREA A

SWALL-2 PCE <25 TCE <25

B1500 12/2/99 (2.5-4.5') PCE <25

AS-S-4

AES-4 7/18/06 (4') PCE 550 TCE <25

AWS-4 7/18/06 (4') PCE 270 TCE <25

AS-S-4 7/18/06 (4') PCE 260

MW-800/B800

ABE-6 7/18/06 (6') PCE 2,000 TCE 43

B800 12/2/99 (2.5-4.5') PCE <25

ABW-6 7/18/06 (6') PCE 4,300 TCE 190

N

0 10 20

APPROXIMATE SCALE IN FEET

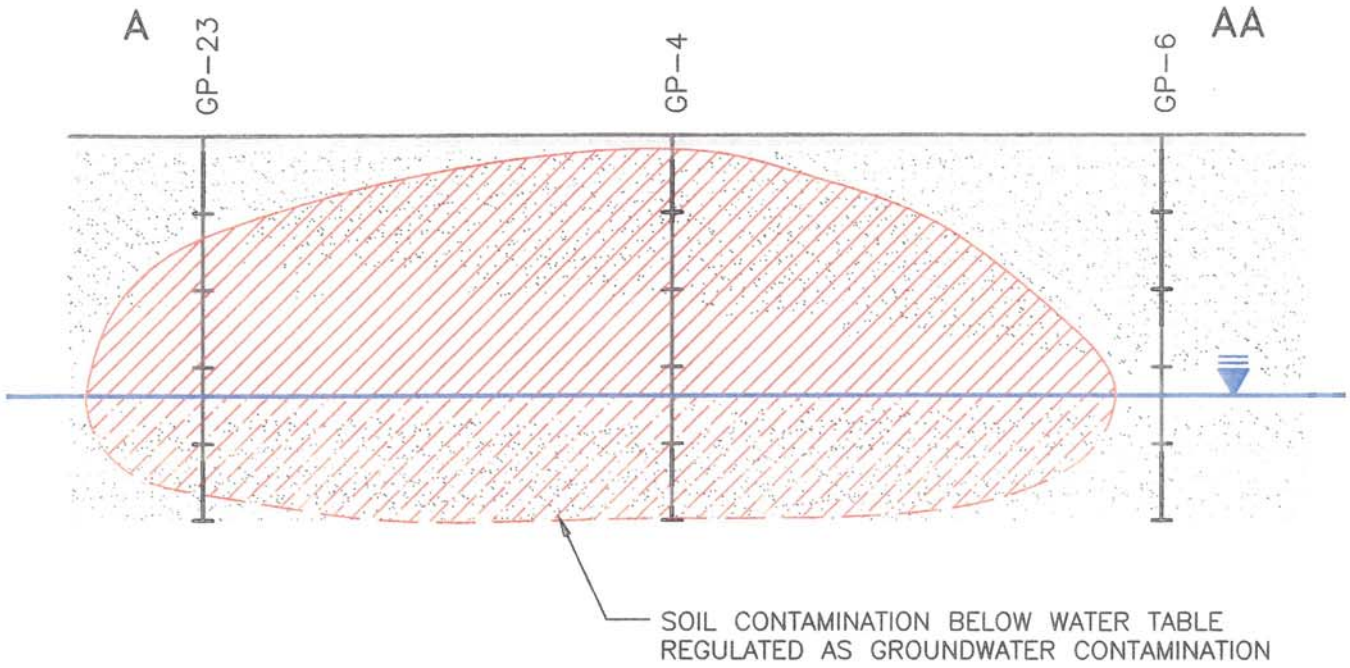
UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

RESIDUAL SOIL CONTAMINATION

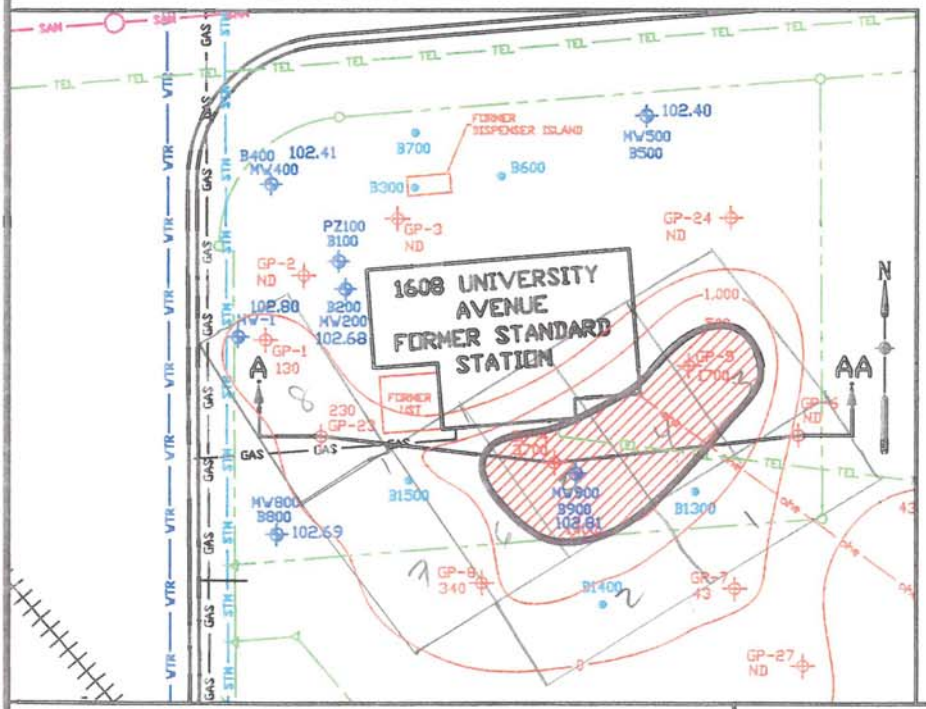
ARCADIS Design & Consultancy for natural and built assets

FIGURE B.2.b

10OCT16\ENVIRONMENT\LRLMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\ANALYTICAL RESULTS POST REMEDIAL SOIL CONTAMINATION.AI



CROSS SECTION LOCATION MAP



LEGEND

- ASPHALT
- SAND (SP)
- GROUND WATER ELEVATION

HORIZONTAL SCALE
10 0 10 20
SCALE: 1"=20'

VERTICAL SCALE
2.5 0 2.5 5.0
SCALE: 1"=5'

C:\PROJECTS\DAVE CHARLES\DERF\SITE-102804.DWG

GEOLOGIC CROSS SECTION A - AA WITH CONTAMINATION

MR. DAVE CHARLES D/B/A
UNIVERSITY CLEANERS
1608 & 1620 UNIVERSITY AVE.
GREEN BAY, WISCONSIN

MMA, INC.
CONSULTING ENGINEERS
2304 Bel-Aire Court
Green Bay, WI 54304-5017
Phone: 920/592-9606 Fax: 920/592-9613

SCALE: AS SHOWN	DRAWN BY: SMM	FIGURE NUMBER:
DATE: MARCH 22, 2005	REVIEWED BY: JMM	B.3.a

LEGEND

- PROPERTY LINE
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- EXTENT OF CVOC IMPACTED GROUNDWATER
- SOIL EXCAVATED IN 2006
- SOIL EXCAVATED IN 2010
- FORMER BUILDING FOOTPRINT

CVOCs	Chlorinated Volatile Organic Compounds
1,1-DCE	1,1-Dichloroethene
cis-1,2 DCE	Cis-1,2-Dichloroethene
MC	Methylene Chloride
PCE	Tetrachloroethane
TCE	Trichloroethene
VC	Vinyl Chloride
NA	Not Analyzed
ND	Non Detect/CVOC concentrations were below laboratory detection limits.
J, Q	Concentration detected between the laboratory limit of detection and limit of quantification.
BOLD	Concentration exceeds the NR 140 Enforcement Standard (ES)
ITALICS	Concentration exceeds the NR 140 Preventative Action Limit (PAL)

Note: Only detected constituents of concern are presented. Constituent concentrations are reported in micrograms per liter (µg/L) unless otherwise noted.

AMW-16

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-5

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

UNIVERSITY AVENUE

MW-500

	6/01	8/01	12/01	11/03	4/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	**430**	**650**	**500**	**44**	**24**	**180**	**110**	**220**	**240**	**110**	**16**	**231**	**59.2**	**259**	**127**	**35.4**	**148**	**372**	**217**	**195**
TCE	*3.1*	**10**	*4.3*	**7.1**	*4.8*	**7.9**	**5.0**	**6.6**	**9.5**	**8.5**	**6.2**	**12.9**	**5.6**	**17.9**	**13.6**	**6.6**	**21.4**	**55.8**	**24.0**	**13.7**
VC	<2.5	<7.9	**7.2**	<0.18	<0.15	<0.18	<0.20	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18	<0.36	<0.36	<0.37	<0.35

AMW-15

	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
cis-1,2 DCE	*14*	*35*	*53.4*	**340**	**161**	**221**	**630**	**811**	**1,170**	**149**	**1,280**	**438**
PCE	*3.0*	**130**	**269**	**90.6**	**103**	**29.3**	**794**	**621**	**544**	**45.5**	**257**	**108**
TCE	**10**	**220**	**197**	**56.5**	**130**	**15.3**	**506**	**402**	**472**	**11.5**	**349**	**120**
VC	**0.35**	**0.87**	**1.10**	**0.64**	**0.99**	**0.69**	<1.8	<1.8	<1.8	<0.18	<0.18	<0.18

AMW-12

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	**5.6**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50

MW-400 (Abandoned 7/18/06)

	6/01	8/01	12/01	11/03	4/04	8/04
PCE	<0.22	<0.22	<0.22	*1.1*	0.23	**100**
TCE	<0.24	<0.24	<0.24	*<0.48*	<0.20	**6.3 J**
MC	NA	NA	NA	*0.53*	*2.1*	*2.3 J*

PZ-101

	9/09	8/10	12/10	6/11	9/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

PZ-100

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

AMW-14

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-200

	6/01	8/01	12/01	11/03	4/04	8/04	3/07	6/07	9/07	12/07	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	<11	<1.1	<1.1	*0.65*	<0.20	<41	<10	<9.0	<2.2	<4.5	*2.5*	<2.2	<4.5	*0.66 J*	<0.45	<2.2	<0.45	<1.2	<0.5
TCE	<1.2	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	*<0.72 J*	<1.1	*0.56 J*

1608 UNIVERSITY AVENUE
(FORMER BUILDING)

AMW-13

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2-DCE	ND	ND	ND	ND	2.3	ND	ND

MW-1

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	*2.9*	*2.3*	*0.84*	**5.9**	*3.8*	**7.4**	*3.3*	*1.1 J*	*2.5*	*1.9*	*3.1*	*2.3*	*3.4*	*0.94*	*3.6*	**5.4**	*3.70*	*1.60*	*3.3*	*1.6*	<0.50
MC	ND	ND	ND	*0.61*	*1.4*	*1.8*	<0.43	<1.0	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	*1.4*	*1.4*	<0.43	<0.36	<0.23

AMW-11 (Abandoned 7/4/10)

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09
cis-1,2-DCE	<83	<42	<40	<83	<42	<83	<20.8	<16.5	**203**	**53.1**
PCE	**7,600**	**9,000**	**7,200**	**6,500**	**5,900**	**7,200**	**3,450**	**4,010**	**6,090**	**4,400**
TCE	<48	**25**	<40	<48	**32**	**88**	**38.8**	**48.9**	**368**	**188**

AMW-10

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2 DCE	**130**	**74**	*56*	*37*	*45*	*43*	*29*	*62.4*	*16.6*	**94.7**	*65.7*	**94.2**	**79.7**	**70.5**	**122.0**	*44.1*
PCE	**31**	**20**	**25**	**23**	**17**	**20**	**8**	**17.6**	**8.5**	**17**	**27.1**	**6.6**	**9.8**	*2.9*	**7.9**	**6.0**
TCE	**150**	**100**	**80**	**91**	**130**	**100**	**70**	**84.9**	**27.5**	**43.4**	**27.3**	**5.0**	**9.1**	*2.6*	*3.7*	*2.9*
VC	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**1.1**	**0.72 J**

MW-900 (Abandoned 7/18/06)

	6/01	8/01	8/01 DUP	12/01	11/03	4/04	8/04
cis-1,2-DCE	*11 J*	*47*	1.8	*35*	<8.3	<18	<15
PCE	**890**	**180**	*1.5*	**360**	**1,400**	**930**	**1,100**
TCE	**33**	**21**	<0.24	**56**	**54**	**26**	**25 J**

MW-800

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	6/07	9/07	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	*0.74*	<0.22	<0.22	<0.45	*1.2*	0.36 J	<0.45	<0.45	*0.72 Q*	<0.45	*1.2*	<0.45	<0.45	*0.62 J*	<0.47	*0.71 J*
VC	<0.22	<0.22	<0.22	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.44 J**	<0.18	*0.19 J*	<0.18

BNS-4, AMW-12, MW-400, AREA B, BWS-4, BB-6, BES-4, BSS-4, PZ-100, AMW-15, PZ-101, MW-500, AMW-14, MW-200, AMW-16, MW-5, AMW-13, MW-1, AMW-11, AMW-10, ANS-4, MW-900, ABE-6, AES-4, AWS-4, ABW-6, AREA A, AS-S-4, MW-800

100

5

N

0 10 20

APPROXIMATE SCALE IN FEET

21OCT16\ENVIRONMENTL\RLMB
SATRECW\1133\UNIVERSITY\GRAPHICS\CVOC EXCEED_0714.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

GROUNDWATER ISOCONCENTRATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
B.3.b

LEGEND

PROPERTY LINE

ABANDONED WELL (July 2006/August 2010/September 2016)

GAS LINE

WATER LINE

STORM SEWER

SANITARY SEWER

TELECOMMUNICATION LINE

FORMER BUILDING FOOTPRINT

SOIL EXCAVATED IN 2006

SOIL EXCAVATED IN 2010

bgs — Below ground surface

102.9 — GROUNDWATER ELEVATION CONTOUR

(102.83) — GROUNDWATER ELEVATION

GROUNDWATER FLOW DIRECTION

AMW-16 (102.84)

MW-5 (102.83)

UNIVERSITY AVENUE

M

AMW-12 (102.86)

MW-400/B400

AREA B

AMW-15 (102.83)

PZ-101

MW-500/B500 (102.84)

102.85

AMW-14

PZ-100/B100

DOOR

MW-200

SIGN BASE

102.9

1608 UNIVERSITY AVENUE (FORMER BUILDING

FORMER UST

MW-1 (102.87)

AMW-13 (102.92)

AMW-11

AMW-10 (102.94)

MW-900/B900

AREA A

MW-800/B800

N

0 10 20

APPROXIMATE SCALE IN FEET

08JUN15\ENVIRONMENT\CK\LMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\POTEN SURFACE 53111.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

**GROUNDWATER FLOW DIRECTION
MAY 31, 2011**

ARCADIS Design & Consultancy for natural and built assets

FIGURE
B.3.c.1

LEGEND

PROPERTY LINE

ABANDONED WELL (July 2006/August 2010/September 2016)

GAS LINE

WATER LINE

STORM SEWER

SANITARY SEWER

TELECOMMUNICATION LINE

FORMER BUILDING FOOTPRINT

SOIL EXCAVATED IN 2006

SOIL EXCAVATED IN 2010

bgs — Below ground surface

102.9 — GROUNDWATER ELEVATION CONTOUR (dashed where inferred)

(102.83) — GROUNDWATER ELEVATION

GROUNDWATER FLOW DIRECTION

AMW-16 (102.57)

MW-5 (102.63)

UNIVERSITY AVENUE

102.60

102.60

AMW-15 (102.59)

PZ-101

MW-500 (102.63)

AMW-12 (102.53)

MW-400

AREA B

102.70

102.80

PZ-100

AMW-14 (102.82)

DOOR

MW-200 (102.81)

SIGN BASE

1608 UNIVERSITY AVENUE (FORMER BUILDING

FORMER UST

102.80

102.60

MW-1 (102.72)

AMW-13 (102.55)

102.70

AMW-11

AMW-10 (102.63)

MW-900

AREA A

MW-800 (102.80)

102.60

N

0 10 20

APPROXIMATE SCALE IN FEET

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

GROUNDWATER FLOW DIRECTION
JULY 8, 2014

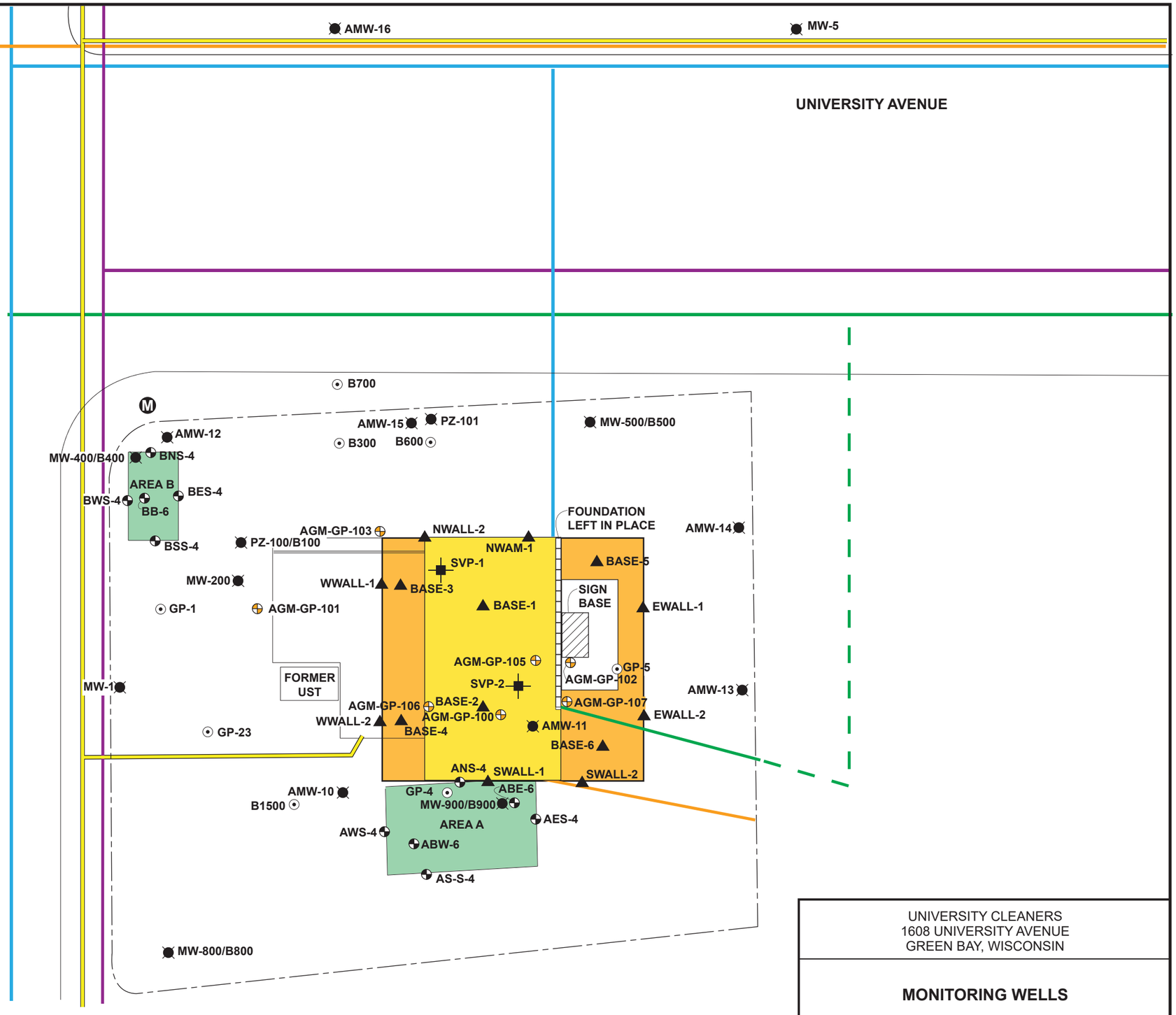
ARCADIS Design & Consultancy for natural and built assets

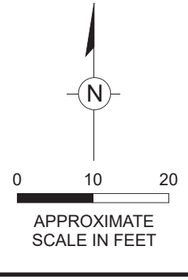
FIGURE
B.3.c.2

08JUN15\ENVIRONMENT\BEL\MB
SATREC\WI1133\UNIVERSITY\GRAPHICS\GROUNDWATER POTENTIOMETRIC SURFAC 7-8-14.AI

LEGEND

- PROPERTY LINE
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006
- NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
- HAZARDOUS SOIL EXCAVATION TO 8'bgs





19DEC16\ENVIRONMENT\CK\LMB
SATREC\WI\1133\UNIVERSITY\GRAPHICS\MONITORING WELLS.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

MONITORING WELLS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
B.3.d

Attachment C
Documentation of Remedial Action

Attachments:

- C.1 Site Investigation Documentation – Included. Summary/no new investigations.
- C.2 Investigative Waste – Not Included. Documented with previous submittals.
- C.3 Description of Methodology – Not Included.
- C.4 Construction Documentation – Not Included. No systems constructed at the Site.
- C.5 Decommissioning of Remedial Systems – Not included. There are no systems at the Site.
- C.6 Other – Included. Photos.

C.1 Site Investigation Summary/Previous Reports

Initial investigation of the site was in February 1999, when Northern Environmental conducted a Phase II ESA that encountered contamination by petroleum compounds from a former gas station (related to WDNR BRRTS No. 03-05-216499) and chlorinated solvents from a dry cleaning operation existing on site. Investigation activities continued in December 1999 when Northern Environmental completed 12 soil borings, installed seven monitoring wells and 1 piezometer, and collected soil and groundwater samples to define the extent of petroleum and chlorinated solvents in the soil/groundwater. These activities included Soil Borings B100/B200/B300/B400/B500/B600/B700/B800/B900/B1300/B1500/MW-1, Monitoring Wells MW-1/MW-5/B-200/B-400/B-500/B-800/B-900, and Piezometer PZ-100. Previous report submittals that describe these investigation activities are listed below.

In May 2001, additional site investigation activities were completed by Northern Environmental and MMA, Inc. These activities included completion of eight geoprobe soil borings/soil and groundwater sampling. The soil borings included GP-1/GP-2/GP-3/GP-4/GP-5/GP-6/GP-23/GP-24.

In February 2006, ARCADIS became involved with the site to perform remediation services. In July, 2006, ARCADIS implemented remedial activities including soil excavation totaling 170 tons and abandonment of two wells within the areas of the excavations. In addition, follow-up activities included the installation of three monitoring wells and one piezometer to support a groundwater monitoring program for natural attenuation. The monitoring wells and piezometer included Monitoring Wells AMW-10/AMW-11/AMW-12/and PZ-10. Groundwater monitoring activities were continued from 2006 through 2009. In 2008, one additional monitoring well was installed to supplement the groundwater monitoring program (Monitoring Well AMW-16).

In August 2009, ARCADIS completed four geoprobe soil borings to further define extent and concentrations of chlorinated solvents, including AGM-GP-100/AGM-GP-101/AGM-GP-102/AGM-GP-103. In November 2009, three additional geoprobe soil borings were completed, including AGM-GP-105/AGM-GP-106/AGM-GP-107.

Based on the results of the 2009 activities, additional soil excavation activities were completed from July 26 to August 11, 2010 totaling 709.4 tons of hazardous and non-hazardous material and the demolition of the existing building onsite that had previously been used as a gas station and dry cleaners.

Following the soil excavation, annual rounds of groundwater sampling were conducted through 2014 to document the natural attenuation and concentration decline of chlorinated solvents remaining in the groundwater.

Previous Reports

"Phase II Environmental Site Assessment, University Cleaners, Green Bay, Wisconsin", February 1999, Northern Environmental.

"Site Investigation Status Update, Chlorinated Solvent Release, University Cleaners, 1608 and 1620 University Avenue, Green Bay, Wisconsin", February 10, 2000, Northern Environmental.

"Site Investigation Report (SIR) Former Standard Station (Currently University Cleaners)", January 2002, Northern Environmental.

"Revised Final Site Investigation Report (SIR) and Remedial Action Options Report (RAOR), University Cleaners, 1608 and 1620 University Avenue, Green Bay, Wisconsin, 54302, BRRTs Case No. 02-05-233555/BRRTs Case No. 02-05-321297", June 28, 2005, MMA, Inc..

"Soil Excavation Completion and Groundwater Monitoring Status Report with Supplemental Work Plan, University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTs Number 02-05-233555", July 2007, ARCADIS.

"Work Plan for Supplemental Monitoring Well Installation and Groundwater Monitoring Activities, Former University Cleaners, 1608 University Avenue, Green Bay, Wisconsin. BRRTS# 02-05-233555", July 16, 2008, ARCADIS.

"Summary of Soil, Subslab Vapor, and Groundwater Sampling Activities, Former University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTS# 02-05-233555", February 17, 2010, ARCADIS.

"Soil Excavation and Groundwater Monitoring Report, University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTS# 02-05-233555", December 9, 2011, ARCADIS.

"Groundwater Sampling Results for 2012, Former University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTS# 02-05-233555", September 28, 2012, ARCADIS.

"Groundwater Sampling Results for 2013, Former University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTS# 02-05-233555", August 15, 2013, ARCADIS.

"Groundwater Sampling Results for 2014, Former University Cleaners, 1608 University Avenue, Green Bay, Wisconsin, BRRTS# 02-05-233555", September 24, 2014, ARCADIS.

C.6 Photos

Figure 1. Original site building /west view.

Figure 2. Original building demolished/west view.

Figure 3. Site excavation/southwest view.

Figure 4. Excavation backfilled/northwest view.

Figure 5. Current site conditions/southwest view.

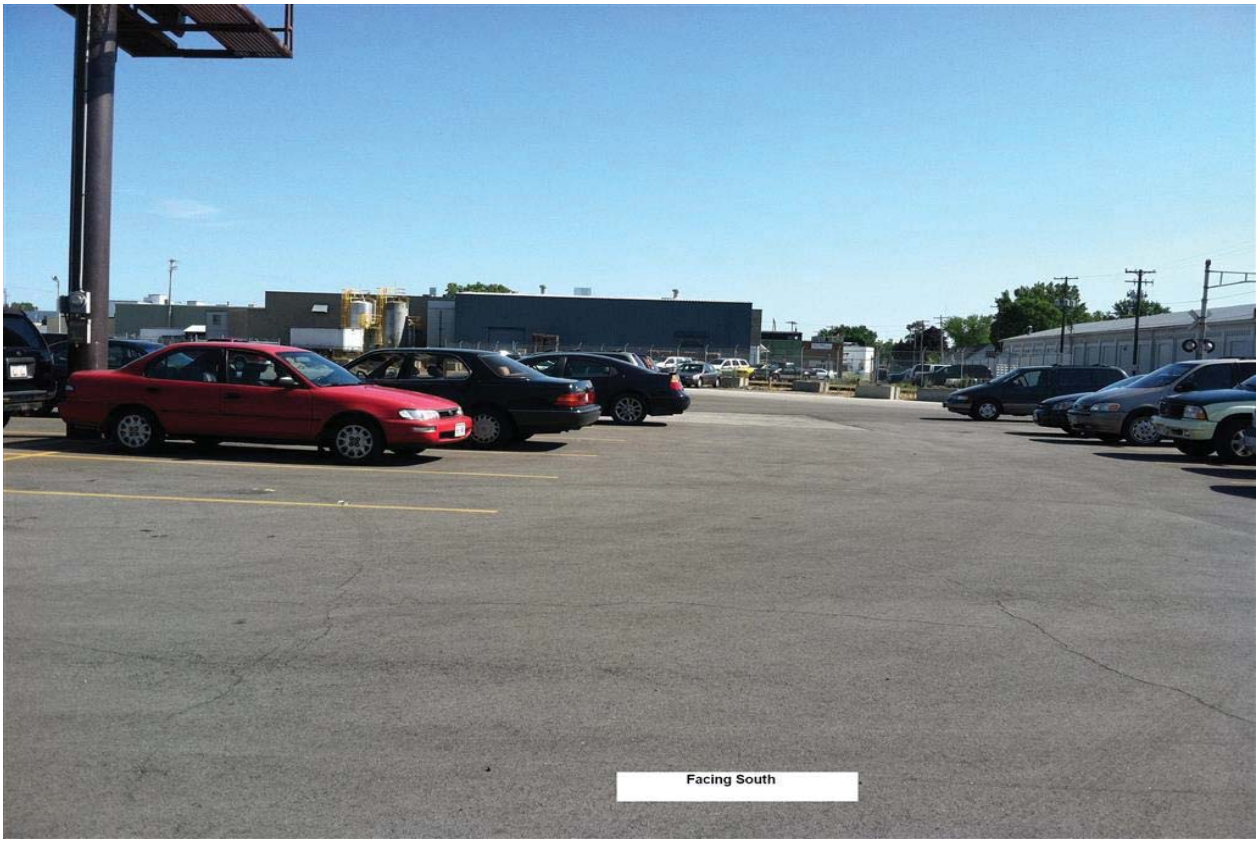


Figure 6. Current site conditions/south view.

Attachment D
Maintenance Plans and Photographs

Attachments:

- D.1 Descriptions of Maintenance Actions – Included.
- D.2 Location Map – Included.
- D.3 Photographs – Included.
- D.4 Inspection Log – Included.

D.1

UNIVERSITY CLEANERS – 1608, CAP MAINTENANCE PLAN

December 2, 2016

Property Located at:

1608 University Avenue, Green Bay, Wisconsin, 54302

DNR BRRTS/Activity # 02-05-233555 & # 03-05-216499, FID # 405095570

Parcel ID: 21-2270-2

D.1 Introduction:

This document is the Maintenance Plan for a cap at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to an existing cap which addresses or occupies the area over contaminated soil and groundwater.

This Maintenance Plan applies to University Cleaners – 1608 (BRRTS # 02-05-233555) and University Cleaners – Former Standard Stn (BRRTS # 03-05-216499) and supersedes the Maintenance Plan associated with the University Cleaners – Former Standard Stn (BRRTS # 03-05-216499) dated February 12, 2003.

More site-specific information about this property/site may be found in:

- The case file in the DNR Green Bay office
- BRRTS on the Web (DNR's internet based data base of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
- RR Sites Map/GIS Registry layer for a map view of the site, and
- The DNR project manager for Brown County.

D.1. Descriptions:

Description of Contamination

This Maintenance Plan applies to petroleum and chlorinated solvent-related volatile organic compounds in soil and groundwater.

Soil:
Concentrations of petroleum and chlorinated solvent-related volatile organic compounds (VOCs) remain in soil at the site at concentrations above the WDNR's soil to groundwater pathway residual contaminant levels (RCLs) and/or above the WDNR's non-industrial direct contact pathway RCLs.

Presently tetrachloroethene (PCE) concentrations ranging from non-detectable to 1,690 micrograms per kilogram (µg/kg) remain in localized areas in the upper 4 feet of soil on site. Below 4 feet, tetrachloroethene concentrations generally range from non-detect to 4,300 µg/kg. The highest remaining concentrations of

tetrachloroethene are present at the base of the main excavation in the central portion of the site at 8 to 10 feet below ground surface (ft bgs), and range from non-detect to 93,100 µg/kg.

Trichloroethene (TCE) is not present in the upper 4 feet of soil, and generally ranges from non-detect to 190 µg/kg below 4 feet. The highest remaining concentrations of trichloroethene are also at the base of the main excavation, and range from non-detect to 13,300 µg/kg. Methylene chloride concentrations ranging from non-detectable to 3,200 µg/kg also are present at the base of the main excavation. The chlorinated VOCs of PCE, TCE, and methylene chloride are addressed under WDNR BRRTS No. 02-05-233555.

Petroleum compounds (benzene [37 µg/kg], naphthalene [1,300 µg/kg] and lead [60 milligrams per kilogram]) are also present at two soil boring locations at depths of 2.5 to 4 ft bgs. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

Groundwater:
Concentrations of petroleum and chlorinated solvent-related VOCs remain in groundwater at the site at concentrations above the WDNR's preventive action limits (PALs) and/or above the WDNR's enforcement standards (ESs).

Groundwater contamination consisting of chlorinated compounds, from prior dry cleaning activities at the site, begin at approximately 6 ft bgs (the depth to groundwater) and extend to approximately 14 ft bgs. Impacted groundwater has not been identified below approximately 14 ft bgs based on data collected from piezometers. Groundwater contamination is highest in the north central portion of the site.

Of the 13 monitoring wells sampled during the latest round of groundwater sampling, 3 monitoring wells contained constituent concentrations above the ES and 3 monitoring wells have constituent concentrations above the PAL. Monitoring Wells MW-200 and MW-800 contained trichloroethene and tetrachloroethene concentrations above the PAL, respectively. Monitoring Well AMW-10 contained concentrations of trichloroethene and cis-1,2-dichloroethane above the PAL.

Monitoring Well AMW-10 also contained concentrations of tetrachloroethene (6 micrograms per liter [µg/L]) and vinyl chloride (0.29 µg/L) above the ES. Monitoring Well AMW-15 contained concentrations of cis-1,2-dichloroethane (438 µg/L), tetrachloroethene (108 µg/L) and trichloroethene (120 µg/L) above the ES, and Monitoring Well MW-500 contained concentrations of tetrachloroethene (195 µg/L) and trichloroethene (13.7 µg/L) above the ES. The chlorinated VOCs are addressed under WDNR BRRTS No. 02-05-233555.

Petroleum compounds are also present in groundwater. Petroleum compounds such as benzene, ethylbenzene, toluene, xylenes, naphthalene, styrene and trimethylbenzenes have been detected in groundwater above the PAL and/or ES at Monitoring Well MW-200. Petroleum compounds are addressed under WDNR BRRTS No. 03-05-216499, closed by WDNR on February 26, 2003.

<u>Description of the Barrier to be Maintained</u>

1608 University Avenue:
The existing barrier consists of approximately three inches of asphalt across the parcel used as a parking lot.

University Avenue and Elizabeth Street Rights-of-Way (ROWS):
The existing barrier consists of roadway asphalt along University Avenue and Elizabeth Street. Along the ROWs, there are also concrete sidewalks. These areas are to be maintained by the City of Green Bay.

The existing barrier features are shown on Figure D.2. Photographs of the barriers to be maintained are included in D.3.

Barrier Purpose

The cap over the contaminated soil and groundwater serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The cap also acts as an infiltration barrier to minimize future soil-to-groundwater contamination migration that could violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current use of the property the barrier should function as intended unless disturbed.

Annual Inspection

The asphalt and concrete cap overlying the contaminated soil and groundwater as depicted in Figure D.2 will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

A copy of the inspection log will be submitted electronically to the DNR upon request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the asphalt and concrete cap overlying the contaminated soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Cap Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the asphalt and concrete cap, will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-

site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the property the engineered cap is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings;

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Amendment or Withdrawal of Maintenance Plan

This Cap Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

D.1 Contact Information:

Site Owner and Operator: David Charles
Satellite Receivers, Ltd.
1740 Cofrin Drive, Suite 2, Green Bay, Wisconsin, 54302
(920) 432-5777

Signature:

(DNR may request signature of affected property owners, on a case-by-case basis)

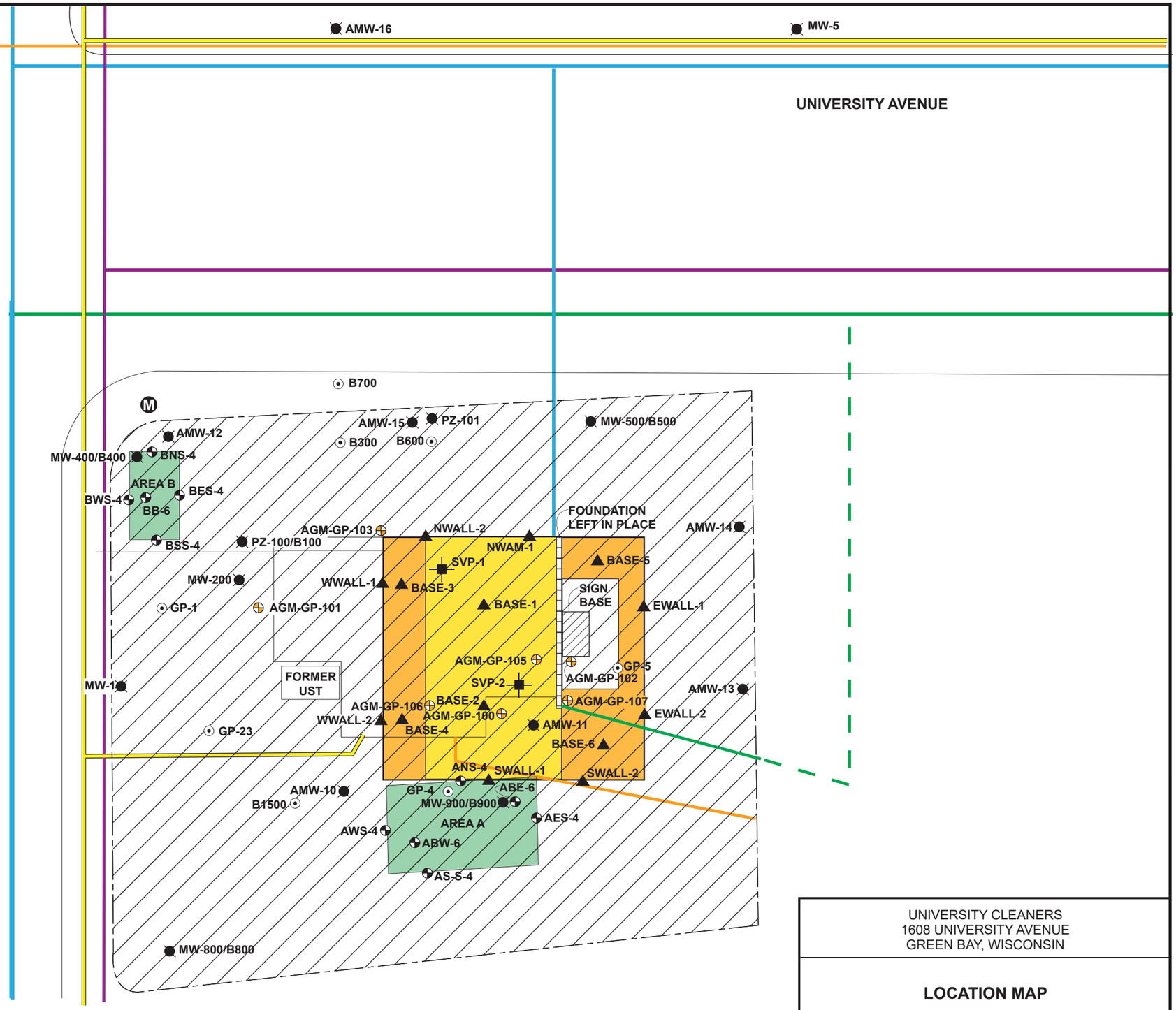
Property Owner: David Charles
Satellite Receivers, Ltd.
1740 Cofrin Drive, Suite 2, Green Bay, Wisconsin, 54302
(920) 432-5777

Consultant: Arcadis U.S., Inc.
126 N. Jefferson Street, Suite 400, Milwaukee, WI 53202
414-276-7742

DNR: Ms. Kristin DuFresne
Wisconsin Department of Natural Resources
Green Bay Service Center
2984 Shawano Avenue
Green Bay, Wisconsin 54313-6727
920-662-5443

LEGEND

- PROPERTY LINE
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010/September 2016)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006
- NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
- HAZARDOUS SOIL EXCAVATION TO 8'bgs
- AREA OF SITE CAP



N

0 10 20

APPROXIMATE SCALE IN FEET

19DEC16\ENVIRONMENT\CK\LMB
SATREC\WI1133\UNIVERSITY\GRAPHICS\CAP LOCATION MAP.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
D.2

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

Photo: 1

Date:
6-28-2012

Description:
North side of Cap

Location:
Facing West

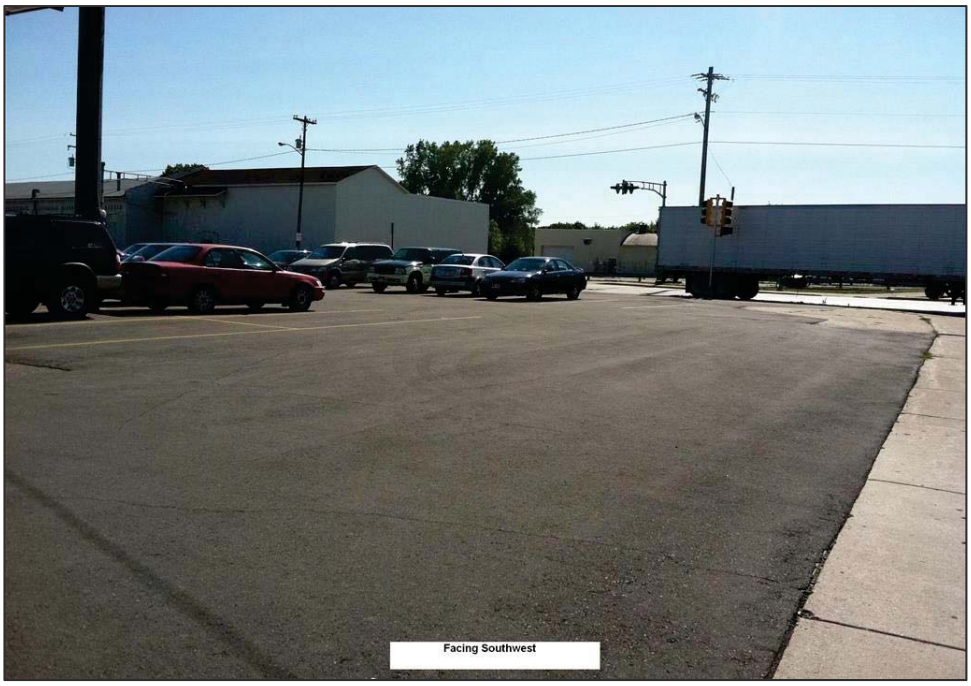


Photo: 2

Date:
6-28-2012

Description:
North side of Cap

Location:
Facing Southwest

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

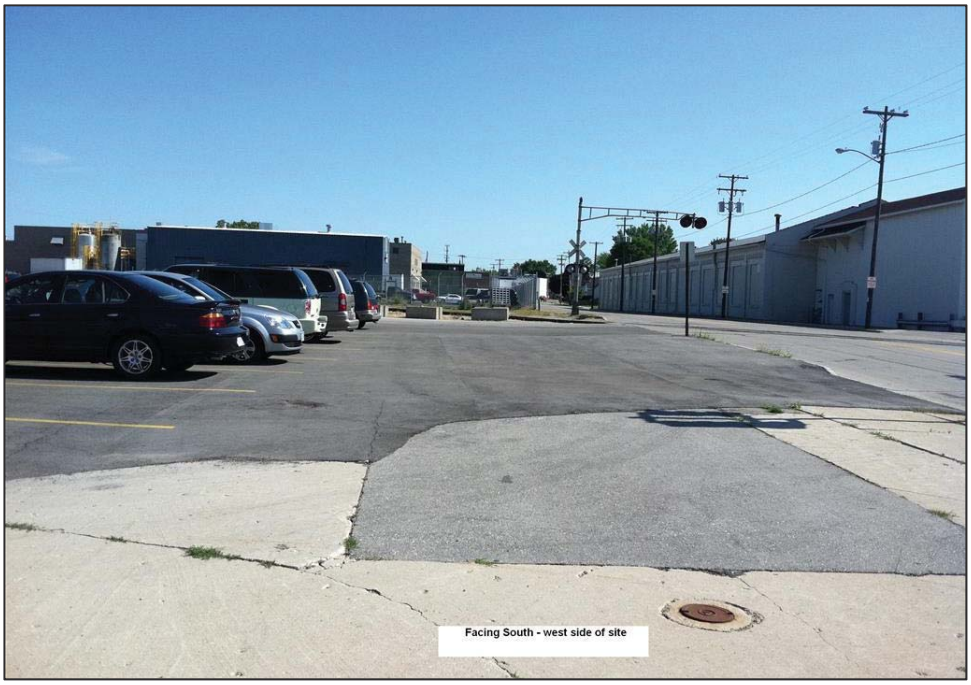


Photo: 3

Date:
6-28-2012

Description:
West side of Cap

Location:
Facing South

Photo: 4

Date:
6-28-2012

Description:
South side of Cap

Location:
Facing Southeast

Project Photographs

University Cleaners – 1608
1608 University Avenue
Green Bay, Wisconsin, 54302

Photo: 5

Date:
6-28-2012

Description:
East side of Cap

Location:
Facing North

Photo: 6

Date:
6-28-2012

Description:
North side of Cap
.

Location:
Facing North

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

D.4 Inspection Log

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name: University Cleaners - 1608

BRRTS No.: 02-05-233555

Inspections are required to be conducted (see closure approval letter):

○ annually
○ semi-annually
○ other – specify ____________________

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			○ Y ○ N	○ Y ○ N

{Click to Add/Edit Image}	Date added:
Title:	

{Click to Add/Edit Image}	Date added:
Title:	

Attachment E
Monitoring Well Information

Attachment:

E – Monitoring Well Information – Not Included. Documented with previous submittals.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4 SE	1/4 NW	Section	Township	Range
or Gov't Lot #		32	24 N	21 ☒ E ☐ W

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	AMW-10

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/19/2006
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	13

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.74

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12.95	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only
Date Received | Noted By
Comments

satrac/WI1133/university/graphics/logs/amw10_aband.ai

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis.Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4 SE	1/4 NW	Section	Township	Range
or Gov't Lot #		32	24 N	21 ☒ E ☐ W

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	AMW-12

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/19/2006
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	13

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.87

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12.81	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papan	09/09/2016

DNR Use Only
Date Received | Noted By
Comments

satrac/WI1133/university/graphics/logs/amw12_aband.ai

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	AMW-13

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/05/2007
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.32

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	13.28	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papan	09/09/2016

DNR Use Only

Date Received	Noted By

Comments:

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service: No longer needed
WI Unique Well # of Replacement Well: — — — — —

2. Facility / Owner Information

Facility Name: University Cleaners - 1608
Common Well Name: AMW-14
Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/05/2007
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.19

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	13.37	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papan	09/09/2016

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Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners -1608	AMW-15

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/05/2007
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.21

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	13.37	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	AMW-16

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/23/2008
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.87

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15.64	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	MW-1

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 05/31/2001
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.77

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	11.67	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By
Comments	

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	O W 8 7 7	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	MW-5

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #: 0205233555
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 04/16/2004

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.09

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	14.19	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By

Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service: No longer needed
WI Unique Well # of Replacement Well: — — — — —

2. Facility / Owner Information

Facility Name: University Cleaners - 1608
Common Well Name: MW-200
Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/03/1999
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13.5	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	13.5

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.37

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12.57	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only
Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	MW-500

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/03/1999
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13.5	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	13.5

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.36

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12.53	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only
Date Received | Noted By
Comments

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	P I 0 3 3 2	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	MW-800

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/03/1999

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13.5	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	13.5

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.62

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12.89	1/3 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By

Comments:

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	P10278	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	PZ-100

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/03/1999

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
30	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	30

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.83

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	28.65	1/2 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only

Date Received	Noted By

Comments:

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # / Removed Well	Hicap #
Brown	— — — — —	NA

Latitude / Longitude (see instructions): 44.5119506 N, -87.9825697 W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☒ SCR002 ☐ OTH001

1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range
SE	NW	32	24 N	21 ☒ E ☐ W

Well Street Address: 1608 University Avenue

Well City, Village or Town	Well ZIP Code
Green Bay	54302

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
No longer needed	— — — — —

2. Facility / Owner Information

Facility Name	Common Well Name
University Cleaners - 1608	PZ-101

Facility ID (FID or PWS): 405095570
License/Permit/Monitoring #:
Original Well Owner: David Charles
Present Well Owner: David Charles
Mailing Address of Present Owner: 1740 Cofrin Drive, Suite 2

City of Present Owner	State	ZIP Code
Green Bay	WI	54302

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/05/2007
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
30	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8.25	30

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	5.28

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☒ No	☐ N/A
Casing left inplace?	☒ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	28.65	1/2 Sack	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Arcadis U.S., Inc.		09/08/2016

Street or Route	Telephone Number
126 N. Jefferson Street, Suite 400	414.277.6232

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202	Tim J. Papas	09/09/2016

DNR Use Only
Date Received | Noted By
Comments

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Attachment F
Source Legal Documents

Attachments:

- F.1 Deeds - Included
- F.2 Certified Survey Map - Included
- F.3 Verification of Zoning - Included
- F.4 Signed Statement - Included

F.1 Deeds

1776445

Document Number

STATE BAR OF WISCONSIN FORM 3 - 1999

QUIT CLAIM DEED

BROWN COUNTY
REGISTER OF DEEDS
CATHY WILLIQUETTE

2000 OCT 10 P 4:16

This Deed, made between GALE L. CHARLES, a single person

Grantor, and SATELLITE RECEIVERS, LTD., a Wisconsin corporation

Grantee.

Grantor quit claims to Grantee the following described real estate in Brown County, State of Wisconsin (if more space is needed, please attach addendum):

BAY TITLE

12 00 (2)

Recording Area

Name and Return Address
Attorney Herbert C. Liebmann, III
P.O. Box 23200
Green Bay, WI 54305-3200

SEE ATTACHED ADDENDUM

WHZ ON RECORD D#1776446

TRANSFER $ 157.50 FEE

TI- 45921

21-2270-2 AND 21-2270
Parcel Identification Number (PIN)

This IS NOT homestead property.
(is not)

Together with all appurtenant rights, title and interests.

Dated this 3rd day of OCTOBER 2000

Gale L. Charles

* Gale L. Charles

*

*

*

AUTHENTICATION

Signature(s)

authenticated this ____ day of

*

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Attorney Herbert C. Liebmann, III

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF Wisconsin)
) ss.
Brown County)

Personally came before me this 3rd of October 2000 the above named Gale L. Charles

to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

Margaret J. Lemond

* Margaret J. Lemond

Notary Public, State of Wisconsin

My Commission is permanent. (If not, state expiration date: 3-16 2003.)

MARGARET J. LEMOND NOTARY PUBLIC STATE OF WISCONSIN

* Names of persons signing in any capacity must be typed or printed below their signature.

QUIT CLAIM DEED — STATE BAR OF WISCONSIN FORM No. 3 - 1999

F.1 Deeds

1776445

ADDENDUM TO QUIT CLAIM DEED

LEGAL DESCRIPTION:

PARCEL I:

The North 92 feet of the West 125 feet of that part of Lot Ninety (90), lying North of the right-of-way of the Kewaunee, Green Bay and Western Railway Company, according to the recorded Plat of Newberry's Addition Subdivision No. 1, in the City of Green Bay, East side of Fox River, Brown County, Wisconsin, except that part sold for road purposes, described in Jacket 305 Records, Image 01.

PARCEL II:

All that part of Lots Eighty-nine (89) and Ninety (90), lying North of the Kewaunee, Green Bay and Western Railway Company's right-of-way, according to the recorded Plat of Newberry's Addition Subdivision No. 1, in the City of Green Bay, East side of Fox River, Brown County, Wisconsin, except premises described in Vol. 345 Deeds, Page 434, and except the North 92 feet of the West 125 feet of said Lot 90 and except the East 200 feet of said Lot 89.

Tax Parcel Number: 21-2270-2 and 21-2270.

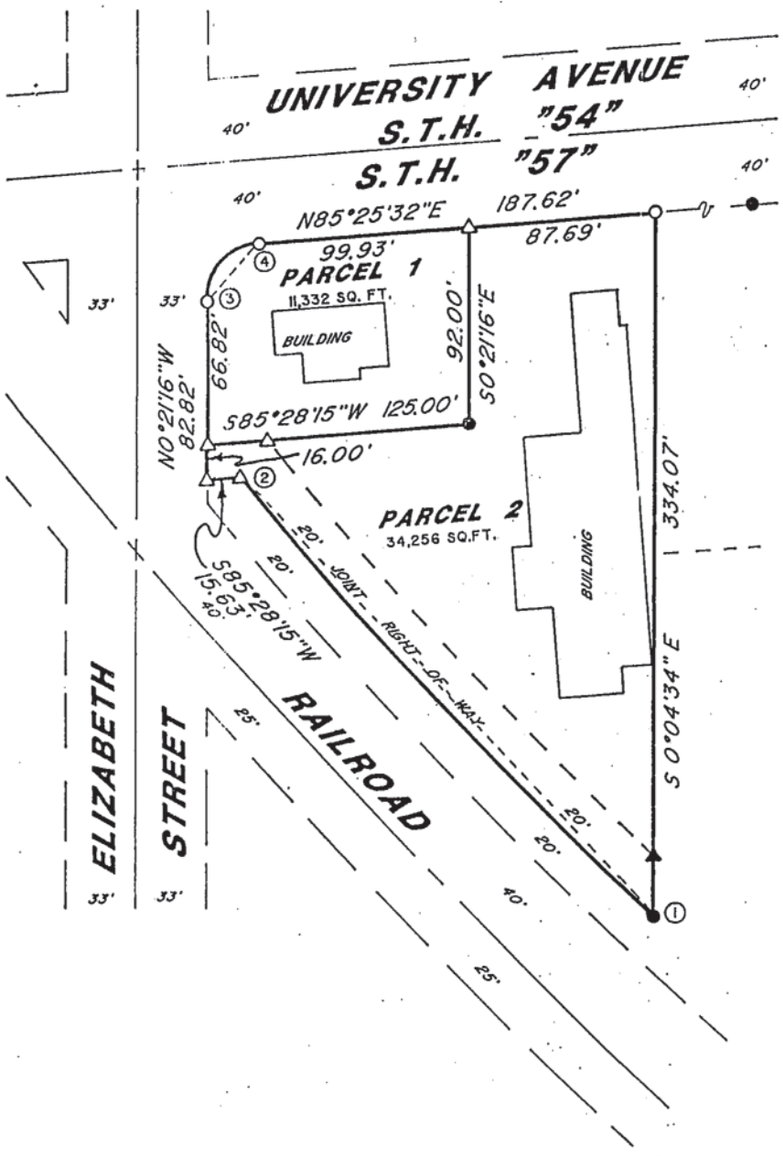
PLAT OF SURVEY

DESCRIPTION OF LAND - PARCEL 1

That part of Lot 90, Newberry's Subdivision Number One, City of Green Bay, Brown County, Wisconsin described as follows:
Commencing at the Northeast corner of Lot 90 ; thence S 85°-25'-32" W 87.69 feet to the point of beginning; thence S 0°-21'-16' E 92.00 feet; thence S 85°-28'-15" W 125.00 feet; thence N 0°-21'-16" W 66.82 feet; thence 40.42 feet along the arc of a 27.00 foot radius curve to the right, the chord of which bears N 42°-32'-13" E 36.75 feet; thence N 85°-25'-32" E 99.93 feet to the point of beginning and subject to easements, reservations and restrictions of record. Parcel contains 11,332 square feet, more or less.

DESCRIPTION OF LAND - PARCEL 2

That part of Lot 90, Newberry's Subdivision Number One, City of Green Bay, Brown County, Wisconsin described as follows:
Commencing at the Northeast corner of Lot 90, Said Corner being the point of Beginning; thence S 0°-04'-34" E 334.07 feet; thence 287.85 feet along the arc of a 2,824.93 foot radius curve to the right the chord of which bears N 42°-59'-48" W 287.73 feet; thence S 85°-28'-15" W 15.63 feet; thence N 0°-21'-16" W 16.00 feet; thence N 85°-28'-15" W 125.00 feet; thence N 0°-21'-16" W 92.00 feet; thence N 85°-25'-32" E 87.69 feet to the point of beginning and subject to easements, reservations and restrictions of record. Parcel contains 34,256 square feet, more or less.



WISCONSIN
BERNARD L. WATERMOLEN
S-909
Green Bay Wis.
LAND SURVEYOR

CURVE DATA TABLE

NO.	I-2	3-4
ARC	287.85	40.42
RADIUS	2824.93	27.00
CHORD	287.73	36.75
CHRD. BRNG.	N42°59'48"W	N42°32'13"E
I-ANGLE	5°50'18"	85°46'38"
TAN. BRNG.	N40°04'39"W	N85°25'32"E

SCALE MAY NOT AGREE AS NOTED BECAUSE OF COPY PROCESSING

BEARINGS ARE REFERENCED TO THE SOUTHERLY LINE OF UNIVERSITY AVENUE ASSUMED TO BEAR N 85°25'32" E.

LEGEND

SCALE: 1" = 60 FEET

- ● IRON PIPE RECOVERED, 1"
- ○ 1" x 24" IRON PIPE SET MIN. WT. = 1.13 #/LIN. FT.
- △ P.K. NAIL SET
- ▲ P.K. NAIL RECOVERED

GRAPHIC SCALE IN FEET
0 25 50 100

SURVEYOR'S CERTIFICATE:
I HEREBY CERTIFY THAT THE MAP SHOWN HEREON WAS SURVEYED TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT IT IS A TRUE REPRESENTATION THEREOF AND SHOWS THE SIZE AND LOCATION OF THE PROPERTY, IT'S EXTERIOR BOUNDARIES, LOCATIONS OF ALL PRINCIPAL BUILDINGS THEREON, BOUNDARY FENCES, APPARENT EASEMENTS AND ENCROACHMENTS, IF ANY.

Bernard L. Watermolen
REGISTERED LAND SURVEYOR
3206 GROSS STREET
GREEN BAY, WISCONSIN 54304
PHONE (414) 339-0551

Bernard L Watermolen

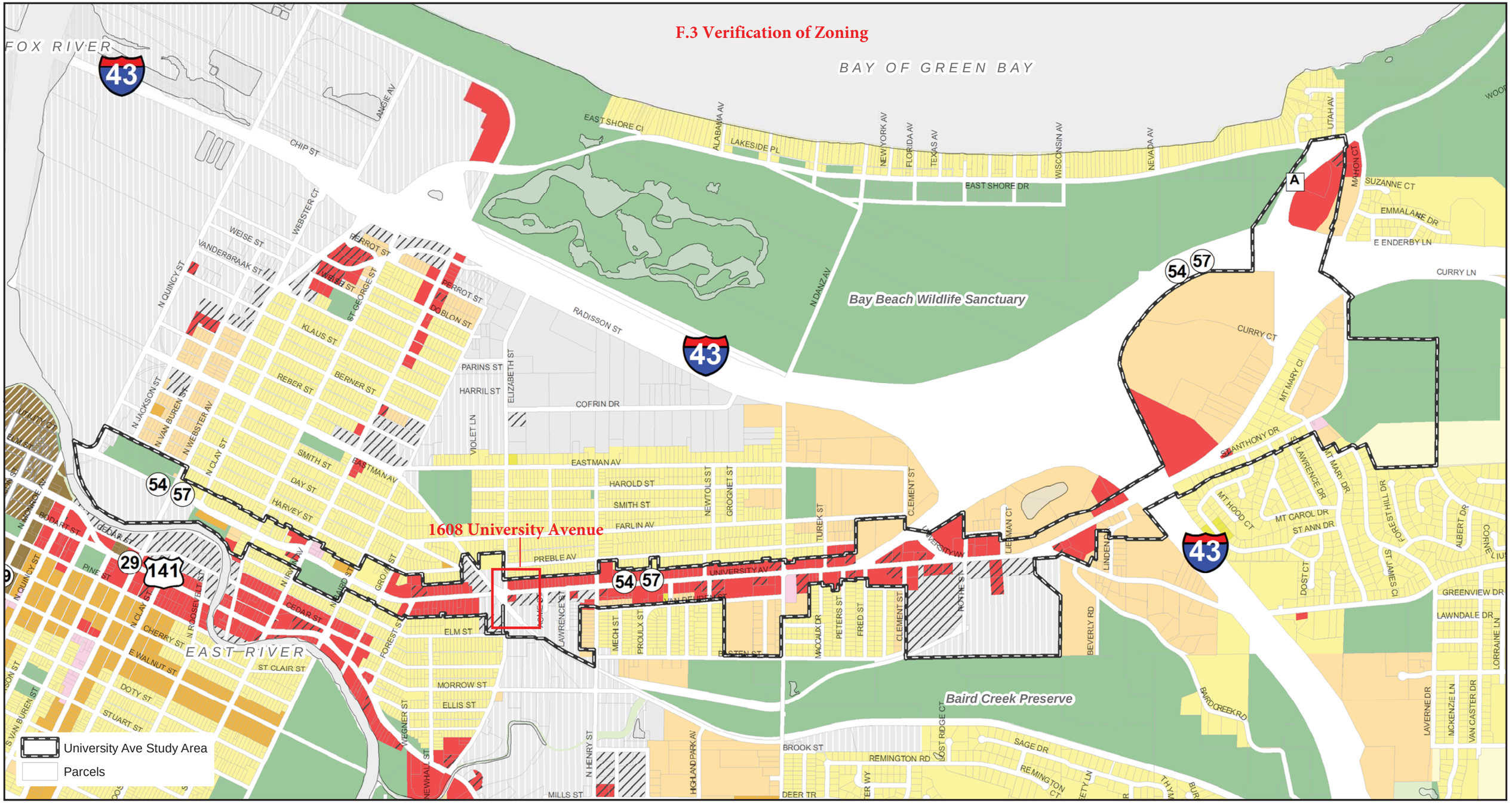
DATE 3-5-92

CLIENT
NELSON

SURVEY NO.
2440

GBB INC 545306

VOL GBE SECTOR 8 PAGE 278
COUNTY SURVEYORS FILE

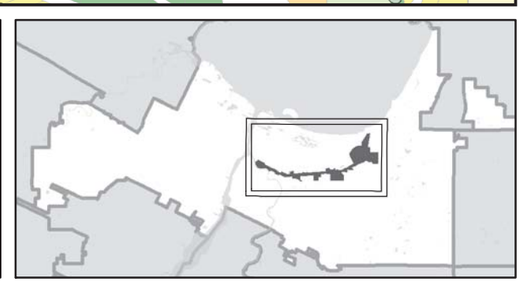


University Avenue Corridor Redevelopment Plan

Zoning

0 0.050.1 0.2 0.3 0.4 0.5 Miles

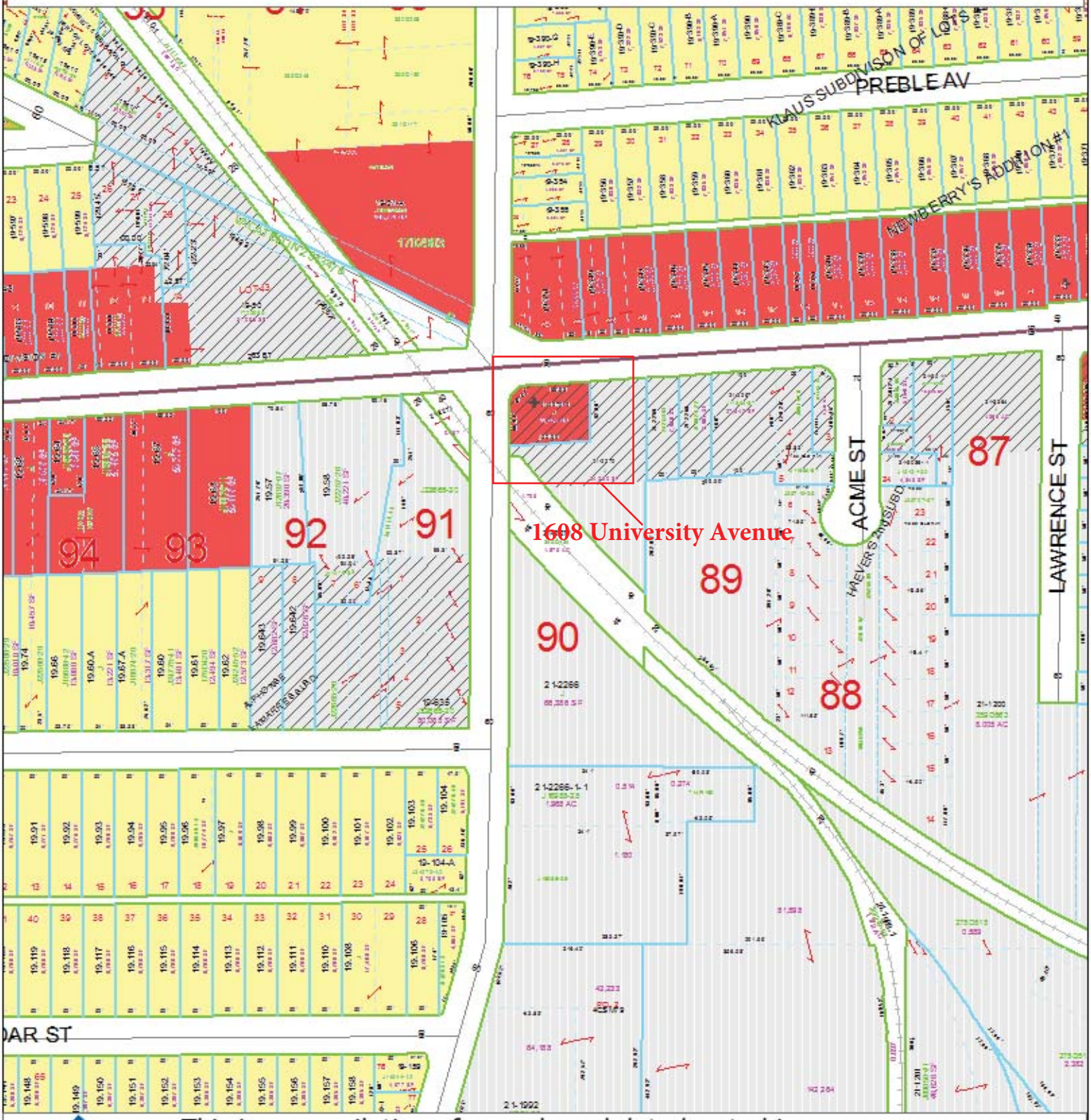
- RR - Rural Residential
- R1 - Low Density Residential-New Lots
- R2 - Medium Density Residential
- R3 - Varied Density Residential
- OR - Office Residential
- NC - Neighborhood Commercial
- C1 - Commercial One
- C2 - Commercial Two
- C3 - Commercial Three
- D1 - Downtown One
- D2 - Downtown Two
- GI - General Industry
- S-RLI - Special District Light Industry
- LI - Light Industry
- BP - Business Park
- PI - Public Property / Institutional
- CON - Conservancy



1608 University Avenue

Zoning

F.3 Verification of Zoning



This is a compilation of records and data located in various City of Green Bay offices and is to be used for reference purposes only. City of Green Bay is not responsible for anyinaccuracies or unauthorized use of the information contained within. No warranties are implied.

NORTH

Scale 1:2400

F.4 Signed Statement

Certification of Legal Description

Parcel Identification No. 21-2270-2
1608 University Avenue
Green Bay, Wisconsin

PARCEL 1:
The North 92 feet of the West 125 feet of that part of Lot Ninety (90), lying North of the right-of-way of the Kewaunee, Green Bay and Western Railway Company, according to the recorded Plat of Newberry's Addition Subdivision No.1, in the City of Green Bay, East side of the Fox River, brown County, Wisconsin, except that part sold for road purposes, described in Jacket 305 Records, Image 01.

I, David Charles, certify that the legal description provided above is complete and accurate to the best of my knowledge for the purpose of registering this site onto the Wisconsin Geographical Information System (GIS) Registry of Closed Remediation Sites.

Signature: _____

Title: President

Date: 3-9-15

Attachment G
Notifications to Owners of Affected Properties

Attachments:

- G.1 Deed – Not Included. Not available for City of Green Bay Right-of Way.
- G.2 Certified Survey Map – Not Included. Not available for City of Green Bay Right-of-Way.
- G.3 Verification of Zoning – Not Included. Not available for City of Green Bay Right-of Way.
- G.4 Signed Statement – Not Included. There is no available deed or legal description for the City of Green Bay Right-of-Way.
- G.5.a.1 Notification Letter 2015
- G.5.a.2 Notification Letter 2016
- G.5.b.1 Proof of Delivery 2015
- G.5.b.2 Proof of Delivery 2016

Section B: ROW Notification: Residual Contamination and/or Continuing Obligations - Non-DOT ROWs

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

100 North Jefferson Street, Room 300
Green Bay, WI, 54301

Dear Mr. Grenier:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which city of Green Bay may become responsible. I have conducted an investigation of a release of chlorinated volatile organic compounds (CVOCs) on 1608 University Avenue, Green Bay, WI, 54302 that has shown that contamination remains in the right-of-way for which city of Green Bay is responsible. I have conducted a cleanup, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the proposed closure request:

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNR contact: Kristen DuFresne at 2984 Shawano Ave, Green Bay, WI, 54313 .

Residual Contamination:

Groundwater Contamination:

Groundwater contamination originated at the property located at 1608 University Avenue, Green Bay, WI, 54302 . Contaminated groundwater has migrated onto your property at right-of-way, north of and adjacent to 1608 University Avenue

The levels of CVOCs, specifically tetrachoroethene, trichoroethane, and cis-1,2-dichoroethene (see Figure B.3.b) contamination in the groundwater on your property are above the state groundwater enforcement standards found in ch. NR 140, Wis. Adm. Code.

If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If you or any other person plan to conduct utility or building construction for which dewatering will be necessary, you or that person must contact the DNR's Water Quality Program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html.

Continuing Obligations on the Right-of-Way (ROW) : As part of the cleanup, I am proposing that the following continuing obligations be used at the affected ROW. If my closure request is approved, you will be responsible for the following continuing obligations:

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at http://dnr.wi.gov/topic/Brownfields/clean.html. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300−254, is on the internet at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

Site Closure:

Once the DNR grants closure, site information, including a copy of the final closure letter, site maps and any applicable maintenance plan, may be found by using BRRTS on the Web. The status of the site (open or closed) may also be checked by searching BRRTS on the Web.

You may also request a copy of the final closure letter from the **responsible party** or by writing to the DNR contact, at Kristen DuFresne, kristen.dufresne@wisconsin.gov, (920) 662-5443 . The final closure letter will contain a description of the continuing obligation, any prohibitions on activities and will include any applicable maintenance plan.

If you have any questions regarding this notification, I can be reached at (920) 432-5777, dcharles@srlcd.com.

Signature of responsible party/environmental consultant for the responsible party	Date Signed
David R. Charles, Sr.	3-9-15

Attachment: Contact Information

Checklist of Documents to Submit

Factsheets:

☒ RR 819, Continuing Obligations for Environmental Protection

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name: Satellite Receivers, Ltd.

Contact Person Last Name	First	MI	Phone Number (include area code)
Charles	David		(920) 432-5777

Address	City	State	ZIP Code
1740 Cofrin Drive, Suite 2	Green Bay	WI	54302

E-mail: dcharles@srlcd.com

Name of Party Receiving Notification:

Title	Last Name	First	MI	Phone Number (include area code)
Mr.	Grenier	Steven	M	(920) 448-3100

Address	City	State	ZIP Code
100 North Jefferson Street, Room 300	Green Bay	WI	54301

Site Name and Source Property Information:

Site (Activity) Name: University Cleaners

Address	City	State	ZIP Code
1608 University Avenue	Green Bay	WI	54302

DNR ID # (BRRTS#)	(DATCP) ID #
02-05-233555	

Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: ARCADIS

Contact Person Last Name	First	MI	Phone Number (include area code)
Kubacki	Chris		(414) 276-7742

Address	City	State	ZIP Code
126 N Jefferson, Suite 400	Milwaukee	WI	53202

E-mail: ed.buc@arcadis-us.com

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

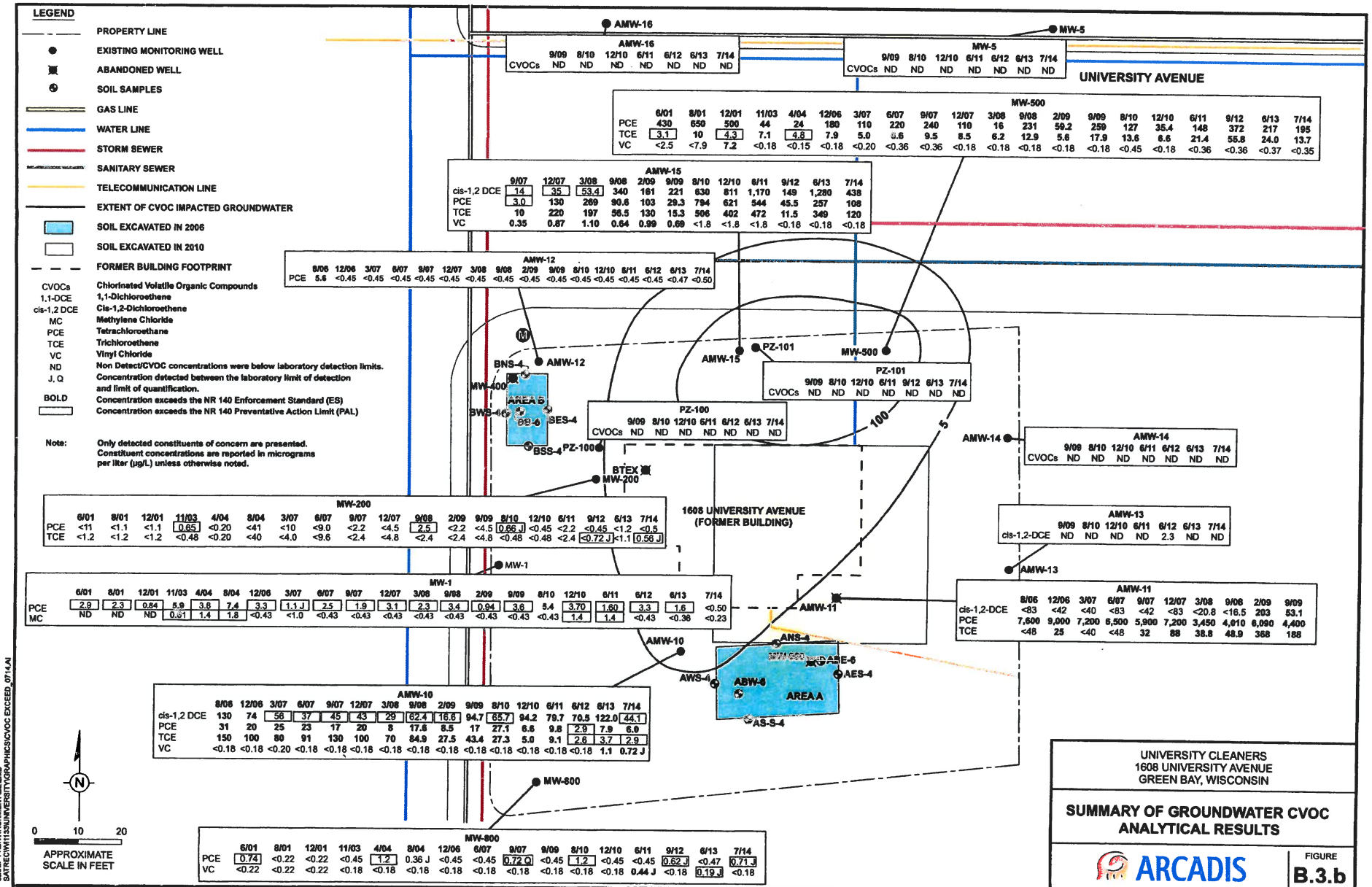
Address	City	State	ZIP Code
2984 Shawano Ave	Green Bay	WI	54313

Contact Person Last Name	First	MI	Phone Number (include area code)
DuFresne	Kristen		(920) 662-5443

E-mail (Firstname.Lastname@wisconsin.gov): kristen.dufresne@wisconsin.gov

The affected property is:

- ○ the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- ○ a deeded property affected by contamination from the source property
- ◉ a right-of-way (ROW)
- ○ a Department of Transportation (DOT) ROW



AMW-16

CVOCs	9/09	8/10	12/10	6/11	6/12	6/13	7/14
	ND	ND	ND	ND	ND	ND	ND

MW-5

CVOCs	9/09	8/10	12/10	6/11	6/12	6/13	7/14
	ND	ND	ND	ND	ND	ND	ND

MW-500

	6/01	8/01	12/01	11/03	4/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	430	650	500	44	24	180	110	220	240	110	16	231	59.2	259	127	35.4	148	372	217	195
TCE	3.1	10	4.3	7.1	4.8	7.9	5.0	8.6	9.5	8.5	6.2	12.9	5.6	17.9	13.6	6.6	21.4	55.8	24.0	13.7
VC	<2.5	<7.9	7.2	<0.18	<0.15	<0.18	<0.20	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18	<0.36	<0.36	<0.37	<0.35

AMW-15

	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
cis-1,2 DCE	14	35	53.4	340	161	221	630	811	1,170	149	1,280	438
PCE	3.0	130	269	90.6	103	29.3	794	621	544	45.5	257	108
TCE	10	220	197	56.5	130	15.3	506	402	472	11.5	349	120
VC	0.35	0.87	1.10	0.64	0.99	0.69	<1.8	<1.8	<1.8	<0.18	<0.18	<0.18

AMW-12

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	5.6	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50

PZ-101

CVOCs	9/09	8/10	12/10	6/11	9/12	6/13	7/14
	ND	ND	ND	ND	ND	ND	ND

PZ-100

CVOCs	9/09	8/10	12/10	6/11	6/12	6/13	7/14
	ND	ND	ND	ND	ND	ND	ND

AMW-14

CVOCs	9/09	8/10	12/10	6/11	6/12	6/13	7/14
	ND	ND	ND	ND	ND	ND	ND

MW-200

	6/01	8/01	12/01	11/03	4/04	8/04	3/07	6/07	9/07	12/07	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	<11	<1.1	<1.1	0.65	<0.20	<41	<10	<9.0	<2.2	<4.5	2.5	<2.2	<4.5	0.66 J	<0.45	<2.2	<0.45	<1.2	<0.5
TCE	<1.2	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	<0.72 J	<1.1	0.56 J

AMW-13

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2-DCE	ND	ND	ND	ND	2.3	ND	ND

MW-1

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	2.9	2.3	0.84	5.9	3.8	7.4	3.3	1.1 J	2.5	1.9	3.1	2.3	3.4	0.94	3.6	5.4	3.70	1.60	3.3	1.6	<0.50
MC	ND	ND	ND	0.81	1.4	1.8	<0.43	<1.0	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	1.4	1.4	<0.43	<0.36	<0.23

AMW-11

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09
cis-1,2-DCE	<83	<42	<40	<83	<42	<83	<20.8	<16.5	203	53.1
PCE	7,600	9,000	7,200	6,500	5,900	7,200	3,450	4,010	6,090	4,400
TCE	<48	25	<40	<48	32	88	38.8	48.9	368	188

AMW-10

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2 DCE	130	74	56	37	45	43	29	62.4	16.8	94.7	85.7	94.2	79.7	70.5	122.0	44.1
PCE	31	20	25	23	17	20	8	17.6	8.5	17	27.1	6.6	9.8	2.9	7.9	6.0
TCE	150	100	80	91	130	100	70	84.9	27.5	43.4	27.3	5.0	9.1	2.6	3.7	2.9
VC	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	1.1	0.72 J

MW-800

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	6/07	9/07	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	0.74	<0.22	<0.22	<0.45	1.2	0.36 J	<0.45	<0.45	0.72 Q	<0.45	1.2	<0.45	<0.45	0.62 J	<0.47	0.71 J
VC	<0.22	<0.22	<0.22	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.44 J	<0.18	0.19 J	<0.18

G.5.a.2 Notification Letter 2016

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI
53707-7921
dnr.wi.gov

Notification of Continuing Obligations and Residual Contamination

Form 4400-286 (10/13)

Notice: Pursuant to s. 292.12(4), Wis. Stats., written notification of parties affected by residual contamination is required. Pursuant to ch. NR 725, Wis. Adm. Code, this form is required to be completed for those sites meeting the criteria in s. NR 725.05 (see below), by a responsible party seeking case closure approval pursuant to ch. NR 726, Wis. Adm. Code or by those persons seeking a remedial action plan approval pursuant to ch. NR 722, Wis. Adm. Code, or by local government units or economic development corporations that are required to take an action pursuant to ch. NR 708, Wis. Adm. Code, when the Department of Natural Resources (DNR) determines that notification is necessary. Personally identifiable information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31-19.39, Wis. Stats.). (Unless otherwise noted, citations refer to Wis. Adm. Code.)

Note: A copy of each completed form must also be submitted to the WI Department of Natural Resources, in accordance with s. NR 726.09 (3), Wis. Adm. Code.

Directions:

1. Include the first page of this form, **Contact Information**, as an attachment with all notifications sent using Sections A and B. (*Filling out this page first allows for automatic entry of the contact information within the letter.*)
2. To notify affected parties about residual contamination and continuing obligations, use the appropriate section (A, B or C, beginning on page 5), based on the type of property to which the required notification is to be sent, per s. NR 725.05 and 725.07, Wis. Adm. Code:
   Section A: Deeded Properties
   Section B: **Right-of-Way (ROW) - non-Department of Transportation**
   Section C: **Department of Transportation (DOT) ROW**
3. Select and use the applicable paragraphs, based on the types of residual contamination and continuing obligations for the specific property. For the "Residual Contamination" and "Continuing Obligations on Your Property" sections, the applicable language will appear upon selection of the checkboxes.
4. Include the information requested within each paragraph. If requesting remedial action plan approval, or if the Department has directed a local governmental unit to take an action at a site, modify the language regarding a "closure request" to reflect the appropriate situation ("remedial action plan approval" or a "liability clarification letter").
5. Once completed, print the form for mailing.
6. Under s. NR 725.07, Wis. Adm. Code, notification letters under section A and B are required to be sent via certified mail, return receipt requested, or priority mail with signature confirmation. If the notifications are sent via priority mail with signature confirmation, you may use the signature waiver option if you have reason to believe that the owner of the property or other recipient may refuse to sign for the notification.

Situations for Which Notifications are Required:

Under s. NR 725.07, Wis. Adm. Code, notification is required for the following situations:

- groundwater contamination that attains or exceeds applicable standards remains upon completion of the remedial action
- soil contamination that attains or exceeds applicable standards remains upon completion of the remedial action,
- one or more monitoring wells have not been located for abandonment (fill and seal), or
- one or more monitoring wells will be kept for future monitoring,
- a cover (which may include soil covers, pavement, engineered cover, foundations) was used to address exposure by either direct contact or the groundwater pathway,
- a structural impediment (generally a building or other type of structure) prevented completion of a site investigation or remedial action. *This may also apply to site-specific situations which prevent a complete investigation or cleanup, such as an overhead power lines. Contact the agency with administrative authority first for site-specific situations.*
- soil contamination has only been cleaned up to industrial residual contaminant levels, and the property's land use has been classified as industrial under ch. NR 720,
- (vapor) the continued operation of a vapor mitigation system is necessary in order to limit or prevent vapor intrusion. *Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owners when sub-slab vapor risk screening levels are exceeded, and the operation and maintenance of a vapor mitigation system is necessary in order to limit or prevent vapor intrusion.*
- (vapor) compounds of concern will continue to be used in facility operations after closure. *Notification is provided to the current owner of the source property when that person is not the responsible party*

conducting the cleanup. Because the compound of concern is still in use, complete investigation of the vapor pathway may be impracticable, and cleanup may be limited in effectiveness as well.

- (vapor) a dewatering system needs to be operated and maintained in order for the vapor mitigation system (VMS) to work effectively.
  Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owner where a vapor mitigation system is necessary and a dewatering system is necessary to enable the vapor mitigation system to operate effectively, due to the hydrogeology. (Used in conjunction with the VMS option)
- (vapor) vapor inhalation exposure assumptions for a non-residential setting will be applied for closure.
  Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owner where residential vapor action levels are exceeded, including at properties used for commercial or industrial purposes.
- (vapor) contamination in soil or groundwater from volatile compounds remains after completion of the remedial action, that could lead to vapor intrusion upon new construction, reconstruction or occupation of an existing building.
  This is especially important in cases where elevated residual soil concentrations or large volumes of soil contaminated with volatile compounds remain. Notification is provided to the current property owner when that person is not the responsible party conducting the cleanup, and to any other property owner where vapors may pose a health issue if buildings are to be constructed in the future, or if other land use changes or actions could result in a completed vapor pathway. This includes expansion or reconstruction of existing buildings.

The Department may also require a condition based on site-specific circumstances. In this case, consult with the project manager to determine what specific information to include in the notification of any affected property owner or right-of-way holder. *This has been used in limited situations where actions such as methane monitoring or fencing were required.*

Parties Receiving Notifications:

Under s. NR 725.05, Wis. Adm. Code, notification must be provided to:

- the owner of each property within or partially within the contaminated site or facility boundaries, other than properties owned by the responsible party,
- occupants of affected properties, as appropriate, *(consult with the project manager if you have questions)*
- the clerk of the county, town, village or city in which an affected public street or highway ROW is located, and municipal department or state agency that is responsible for the maintaining the public street or highway,
- the railroad that maintains the railroad right of way, and
- the owner of each property where a monitoring well will remain, for future abandonment or continued monitoring.

A copy of form 4400-246, Impacted Property Notification Information, is to be submitted with the case closure request. This form is a summary of the notifications sent to all property owners or occupants of affected properties and holders of affected ROWs, prior to submittal of a closure request

Note: A response to a closure request cannot be provided until at least 30 days after this notification letter has been sent. Documentation that this letter has been sent must be provided to the agency with administrative authority for an approval or decision under ch. NR 726, Wis. Adm. Code.

Include this completed page as an attachment with all notifications provided under sections A and B.

Contact Information

Responsible Party: **The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:**

Responsible Party Name: Satellite Receivers, Ltd.

Contact Person Last Name	First	MI	Phone Number (include area code)
Charles	David		(920) 432-5777

Address	City	State	ZIP Code
1740 Cofrin Drive, Suite 2	Green Bay	WI	54302

E-mail: dcharles@srlcd.com

Name of Party Receiving Notification:

Title	Last Name	First	MI	Phone Number (include area code)
Mr.	Grenier	Steven	M	(920) 448-3100

Address	City	State	ZIP Code
100 North Jefferson Street, Room 300	Green Bay	WI	54301

Site Name and Source Property Information:

Site (Activity) Name: University Cleaners - 1608

Address	City	State	ZIP Code
1608 University Avenue	Green Bay	WI	54302

DNR ID # (BRRTS#)	(DATCP) ID #
02-05-233555	

Contacts for Questions:

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

Environmental Consultant: Arcadis U.S., Inc.

Contact Person Last Name	First	MI	Phone Number (include area code)
Kubacki	Chris		(414) 276-7742

Address	City	State	ZIP Code
126 N. Jefferson Street, Suite 400	Milwaukee	WI	53202

E-mail: chris.kubacki@arcadis.com

Department Contact:

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

Department of: Natural Resources (DNR)

Address	City	State	ZIP Code
2984 Shawano Ave	Green Bay	WI	54313

Contact Person Last Name	First	MI	Phone Number (include area code)
DuFresne	Kristin		(920) 662-5443

E-mail (Firstname.Lastname@wisconsin.gov): kristin.dufresne@wisconsin.gov

The affected property is:

- ○ the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- ○ a deeded property affected by contamination from the source property
- ◉ a right-of-way (ROW)
- ○ a Department of Transportation (DOT) ROW

List of attachments: (list all attachments to be included; include name of attachment and figure numbers)

Maps

Section A

Monitoring Well Location Map - (Filling & Sealing, Continue Sampling of Wells)

Location of Cover in relation to the extent of contamination (Maintenance of a Cover)

Section B

Monitoring Well Location Map - (Filling & Sealing, Continue Sampling of Wells)

Section C:

Groundwater Isoconcentration Map

Soil Isoconcentration Map

Maintenance plan

Section A

Maintenance of Plan - (Maintenance of a cover, Barrier, and/or Vapor Mitigation System)

Factsheets:

Section A

RR 819, Continuing Obligations for Environmental Protection

RR 671, What Landowners Should Know: Information About Using Natural Attenuation to Clean Up Contaminated Groundwater

RR 892, Vapor Intrusion: What to Expect if Vapor Intrusion from Soil and Groundwater Contamination Exist on My Property

Section B

Groundwater RR 892, Vapor Intrusion: What to Expect if Vapor Intrusion from Soil and Groundwater Contamination Exist on My Property

Section B: ROW Notification: Residual Contamination and/or Continuing Obligations - Non-DOT ROWs

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

100 North Jefferson Street, Room 300
Green Bay, WI, 54301

Dear Mr. Grenier:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which city of Green Bay may become responsible. I have conducted an investigation of a release of chlorinated volatile organic compounds (CVOCs) on 1608 University Avenue, Green Bay, WI, 54302 that has shown that contamination has migrated into the right-of-way for which city of Green Bay is responsible. I have conducted a cleanup, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

You have 30 days to comment on the proposed closure request:

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNR contact: Kristin DuFresne at 2984 Shawano Ave, Green Bay, WI, 54313 .

Residual Contamination:

Groundwater Contamination:

Groundwater contamination originated at the property located at 1608 University Avenue, Green Bay, WI, 54302 . Contaminated groundwater has migrated onto your property at the right-of-way of Elizabeth Street, west of and adjacent to 1608 University Avenue. This is in addition to the notification dated March 9, 2015 for groundwater contamination along University Ave.

The levels of Tetrachloroethene and trichloroethene (see Figure B.3.b) contamination in the groundwater on your property are above the state groundwater enforcement standards found in ch. NR 140, Wis. Adm. Code.

Soil Contamination:

Soil contamination remains at the right-of-way of Elizabeth Street, west of and adjacent to 1608 University Avenue near soil samples BB-6, BNS-4, BWS-4 and BSS-4, as shown on the attached Figure B.2.b.

The remaining contaminants include Tetrachloroethene (see figure B.2.b) at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.

The soil contamination is located in pavement in the sidewalk and street along Elizabeth Street adjacent to the property. This pavement is an impermeable barrier that prevents exposure to remaining soil contamination.

If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If you or any other person plan to conduct utility or building construction for which dewatering will be necessary, you or that person must contact the DNR's Water Quality Program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html.

Continuing Obligations on the Right-of-Way (ROW) : As part of the cleanup, I am proposing that the following continuing obligations be used at the affected ROW. If my closure request is approved, you will be responsible for the following continuing obligations:

Residual Soil Contamination:
If soil is excavated from the areas with residual contamination, the right-of-way holder at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. Contaminated soil may be managed in-place, in accordance with s. NR 718, Wis. Adm. Code, with prior Department approval.

The right-of-way holder needs to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans from ingestion, inhalation or dermal contact.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

GIS Registry and Well Construction Requirements:

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at http://dnr.wi.gov/topic/Brownfields/clean.html. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300−254, is on the internet at http://dnr.wi.gov/topic/wells/documents/3300254.pdf.

Site Closure:
Once the DNR grants closure, site information, including a copy of the final closure letter, site maps and any applicable maintenance plan, may be found by using BRRTS on the Web. The status of the site (open or closed) may also be checked by searching BRRTS on the Web.

You may also request a copy of the final closure letter from the **responsible party** or by writing to the DNR contact, at Kristin DuFresne, kristin.dufresne@wisconsin.gov, (920) 662-5443 . The final closure letter will contain a description of the continuing obligation, any prohibitions on activities and will include any applicable maintenance plan.

If you have any questions regarding this notification, I can be reached at (920) 432-5777, dcharles@srlcd.com.

Signature of responsible party/environmental consultant for the responsible party	Date Signed

Attachment: Contact Information

Checklist of Documents to Submit

Factsheets:

☒ RR 819, Continuing Obligations for Environmental Protection

LEGEND

- PROPERTY LINE
- EXISTING MONITORING WELL
- ABANDONED WELLS (JULY 2006/AUGUST 2010)
- SOIL SAMPLES
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- EXTENT OF CVOC IMPACTED GROUNDWATER
- SOIL EXCAVATED IN 2006
- SOIL EXCAVATED IN 2010
- FORMER BUILDING FOOTPRINT

CVOCs	Chlorinated Volatile Organic Compounds
1,1-DCE	1,1-Dichloroethene
cis-1,2 DCE	Cis-1,2-Dichloroethene
MC	Methylene Chloride
PCE	Tetrachloroethane
TCE	Trichloroethene
VC	Vinyl Chloride
NA	Not Analyzed
ND	Non Detect/CVOC concentrations were below laboratory detection limits.
J, Q	Concentration detected between the laboratory limit of detection and limit of quantification.
BOLD	Concentration exceeds the NR 140 Enforcement Standard (ES)
ITALICS	Concentration exceeds the NR 140 Preventative Action Limit (PAL)

Note: Only detected constituents of concern are presented. Constituent concentrations are reported in micrograms per liter (µg/L) unless otherwise noted.

UNIVERSITY AVENUE

AMW-16

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-5

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-500

	6/01	8/01	12/01	11/03	4/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	**430**	**650**	**500**	44	24	180	110	220	240	110	16	231	59.2	259	127	35.4	148	372	217	195
TCE	*3.1*	**10**	*4.3*	7.1	*4.8*	7.9	5.0	6.6	9.5	8.5	6.2	12.9	5.6	17.9	13.6	6.6	21.4	55.8	24.0	13.7
VC	<2.5	<7.9	**7.2**	<0.18	<0.15	<0.18	<0.20	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.45	<0.18	<0.36	<0.36	<0.37	<0.35

AMW-15

	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
cis-1,2 DCE	*14*	*35*	*53.4*	**340**	**161**	**221**	**630**	**811**	**1,170**	**149**	**1,280**	**438**
PCE	*3.0*	**130**	**269**	**90.6**	**103**	**29.3**	**794**	**621**	**544**	**45.5**	**257**	**108**
TCE	**10**	**220**	**197**	**56.5**	**130**	**15.3**	**506**	**402**	**472**	**11.5**	**349**	**120**
VC	**0.35**	**0.87**	**1.10**	**0.64**	**0.99**	**0.69**	<1.8	<1.8	<1.8	<0.18	<0.18	<0.18

AMW-12

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	**5.6**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.50

MW-400 (Abandoned 7/18/06)

	6/01	8/01	12/01	11/03	4/04	8/04
PCE	<0.22	<0.22	<0.22	*1.1*	0.23	**100**
TCE	<0.24	<0.24	<0.24	*<0.48*	<0.20	**6.3 J**
MC	NA	NA	NA	*0.53*	*2.1*	*2.3 J*

PZ-101

	9/09	8/10	12/10	6/11	9/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

PZ-100

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

AMW-14

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
CVOCs	ND	ND	ND	ND	ND	ND	ND

MW-200

	6/01	8/01	12/01	11/03	4/04	8/04	3/07	6/07	9/07	12/07	9/08	2/09	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	<11	<1.1	<1.1	*0.65*	<0.20	<41	<10	<9.0	<2.2	<4.5	*2.5*	<2.2	<4.5	*0.66 J*	<0.45	<2.2	<0.45	<1.2	<0.5
TCE	<1.2	<1.2	<1.2	<0.48	<0.20	<40	<4.0	<9.6	<2.4	<4.8	<2.4	<2.4	<4.8	<0.48	<0.48	<2.4	*<0.72 J*	<1.1	*0.56 J*

AMW-13

	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2-DCE	ND	ND	ND	ND	2.3	ND	ND

MW-1

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
PCE	*2.9*	*2.3*	*0.84*	**5.9**	*3.8*	**7.4**	*3.3*	*1.1 J*	*2.5*	*1.9*	*3.1*	*2.3*	*3.4*	*0.94*	*3.6*	**5.4**	*3.70*	*1.60*	*3.3*	*1.6*	<0.50
MC	ND	ND	ND	*0.61*	*1.4*	*1.8*	<0.43	<1.0	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	*1.4*	*1.4*	<0.43	<0.36	<0.23

AMW-11 (Abandoned 7/4/10)

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09
cis-1,2-DCE	<83	<42	<40	<83	<42	<83	<20.8	<16.5	**203**	**53.1**
PCE	**7,600**	**9,000**	**7,200**	**6,500**	**5,900**	**7,200**	**3,450**	**4,010**	**6,090**	**4,400**
TCE	<48	**25**	<40	<48	**32**	**88**	**38.8**	**48.9**	**368**	**188**

AMW-10

	8/06	12/06	3/07	6/07	9/07	12/07	3/08	9/08	2/09	9/09	8/10	12/10	6/11	6/12	6/13	7/14
cis-1,2 DCE	**130**	**74**	*56*	*37*	*45*	*43*	*29*	*62.4*	*16.6*	**94.7**	*65.7*	**94.2**	**79.7**	**70.5**	**122.0**	*44.1*
PCE	**31**	**20**	**25**	**23**	**17**	**20**	**8**	**17.6**	**8.5**	**17**	**27.1**	**6.6**	**9.8**	*2.9*	**7.9**	**6.0**
TCE	**150**	**100**	**80**	**91**	**130**	**100**	**70**	**84.9**	**27.5**	**43.4**	**27.3**	**5.0**	**9.1**	*2.6*	*3.7*	*2.9*
VC	<0.18	<0.18	<0.20	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**1.1**	**0.72 J**

MW-900 (Abandoned 7/18/06)

	6/01	8/01	8/01 DUP	12/01	11/03	4/04	8/04
cis-1,2-DCE	*11 J*	*47*	1.8	*35*	<8.3	<18	<15
PCE	**890**	**180**	*1.5*	**360**	**1,400**	**930**	**1,100**
TCE	**33**	**21**	<0.24	**56**	**54**	**26**	**25 J**

MW-800

	6/01	8/01	12/01	11/03	4/04	8/04	12/06	6/07	9/07	9/09	8/10	12/10	6/11	9/12	6/13	7/14
PCE	*0.74*	<0.22	<0.22	<0.45	*1.2*	0.36 J	<0.45	<0.45	*0.72 Q*	<0.45	*1.2*	<0.45	<0.45	*0.62 J*	<0.47	*0.71 J*
VC	<0.22	<0.22	<0.22	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.44 J**	<0.18	*0.19 J*	<0.18

AMW-16, MW-5, MW-500, AMW-15, PZ-101, MW-400, BNS-4, AMW-12, AREA B, BWS-4, BB-6, BES-4, BSS-4, PZ-100, MW-200, 1608 UNIVERSITY AVENUE (FORMER BUILDING), AMW-14, AMW-13, AMW-11, MW-1, AMW-10, ANS-4, MW-900, ABE-6, AES-4, AWS-4, ABW-6, AREA A, AS-S-4, MW-800, 100, 5

N

0 10 20

APPROXIMATE SCALE IN FEET

21OCT16\ENVIRONMENTL\RLMB
SATRECW\1133\UNIVERSITY\GRAPHICS\CVOC EXCEED_0714.AI

UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

GROUNDWATER ISOCONCENTRATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
B.3.b

LEGEND

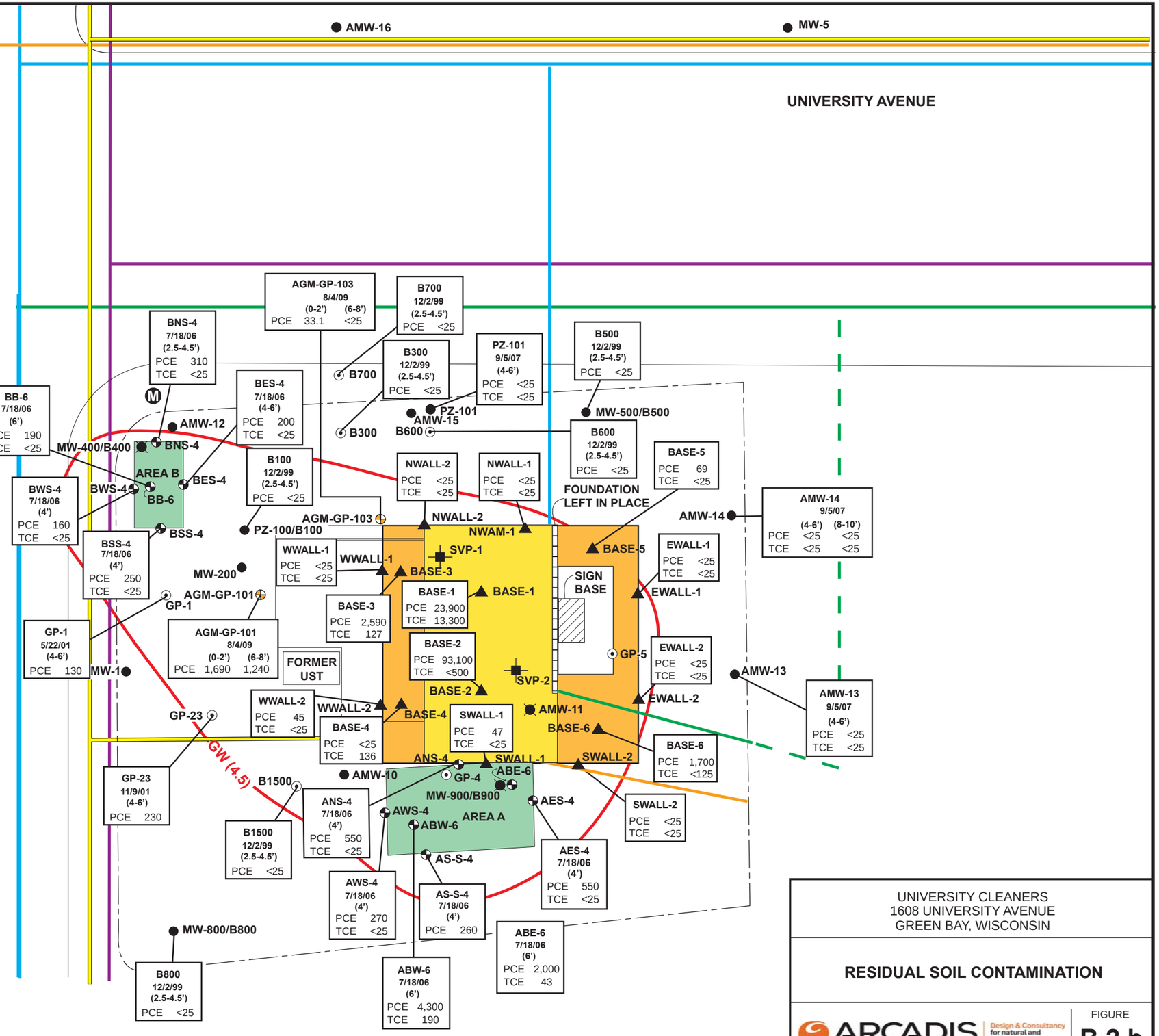
- PROPERTY LINE
- EXISTING MONITORING WELL
- BORING ADVANCED BY MMA, INC. AND NORTHERN ENVIRONMENTAL
- ABANDONED WELLS (July 2006/August 2010)
- SOIL SAMPLES
- SOIL BORING LOCATION
- ABANDONED SOIL VAPOR PROBES
- EXCAVATION CONFIRMATION SOIL SAMPLE
- GAS LINE
- WATER LINE
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION LINE
- SOIL EXCAVATED IN 2006
- NON-HAZARDOUS SOIL EXCAVATION OF 6' bgs
- HAZARDOUS SOIL EXCAVATION TO 8'bgs

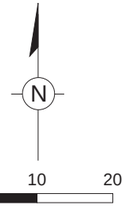
PCE Tetrachloroethene
TCE Trichloroethene

NOTE: Only detected constituents of concern are presented.

Constituent concentrations are reported in micrograms per kilograms (µg/kg).

GW (4.5) EXTENT OF PCE SOIL TO GROUNDWATER PATHWAY EXCEEDANCES IN SOIL





UNIVERSITY CLEANERS
1608 UNIVERSITY AVENUE
GREEN BAY, WISCONSIN

RESIDUAL SOIL CONTAMINATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE **B.2.b**

10OCT16\ENVIRONMENT\LRLMB
SATRECWI1133\UNIVERSITY\GRAPHICS\ANALYTICAL RESULTS POST REMEDIAL SOIL CONTAMINATION.AI

G.5.b.1 Proof of Delivery 2015

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Steven Grenier
1000 Jefferson Str. Room 300
Green Bay WI 54301-5006

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x Nancy Clifford ☐ Agent ☐ Addressee

B. Received by (Printed Name) Nancy Clifford C. Date of Delivery 3-20-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7012 2920 0001 7617 8124

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540

G.5.b.2 Proof of Delivery 2016

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Steven Grenier
100 N Jefferson Str. RM 300
Green Bay, WI 54301

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Barb Brautigam ☑ Agent ☐ Addressee

B. Received by (Printed Name) Barb Brautigam
C. Date of Delivery 10/3/16

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7012 2920 0001 7617 8414

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540