



## TECHNICAL MEMORANDUM

**RE: Soil Management Plan**

**Bottled Bean LLC  
518 Chippewa Street  
Minocqua, WI  
BRRTS# 02-44-000517**

**Date: September 21, 2022**

This Soil Management Plan is intended to aid in proper handling procedures during site redevelopment work. Bottled Bean LLC is planning to build a commercial building for use as a coffee shop/beer café in Minocqua, WI. Planned site work includes earthwork during building construction, utility installation, building footing installation, and potentially other items. REI will be serving as environmental consultant for Bottled Bean LLC and will have personnel on site to oversee proper management of disturbed soil during redevelopment.

### **LOCATION**

The proposed redevelopment is located in the Southeast Quarter (SE  $\frac{1}{4}$ ) of the Northwest Quarter (NW  $\frac{1}{4}$ ) of Section Fourteen (14), Township Thirty-Nine North (39N), Range Six East (6E), Oneida County, Wisconsin. The subject property was formerly identified as 405 Front Street. The subject property is currently listed with the street address of 518 Chippewa Street, Minocqua, WI and will be readdressed. The subject property contains 0.39 acres of land and is bound by the right-of-way of USH 51/Chippewa Street to the north and west, vacant commercial lot to the east and commercial lot to the south. A site location map is included as the attached Figure 1.

### **BACKGROUND**

The following site history was documented in the Final Case Closure with Continuing Obligations document on the WDNR website (BRRTS 02-44-000517). The site of the former Northwoods Laundry was originally developed in the early 1900s as a hotel and tavern. The most recent building occupying the subject property was built in the 1960s. The building originally housed Foltz Realty and a liquor store. Northwoods Laundry and Dry Cleaning took over the portion of the building used as liquor store in the 1970s. The dry-cleaning operation at the business ceased in 1992.

In 1993, a Phase II investigation detected tetrachloroethene (PCE) within the soil in the proposed USH 51 ROW at the subject property (Phase II Environmental Site Assessment - Northwoods Laundry and Dry Cleaning [Site No. 3], by Giles Engineering Associates, Inc.,

January 1994). In 1994, a Phase 2.5 investigation was completed at the site and determined that Chlorinated Volatile Organic Compound (CVOC) soil impacts were limited to the upper five feet of soil at the subject property, and groundwater had also been impacted by CVOCs. (Phase 2.5 Environmental Site Assessment – Northwoods Laundry and Drycleaning [Site #3], by Giles Engineering Associates, Inc., September 1994). The WisDOT acquired a portion of the site in 1995 for the realignment of USH 51 in Minocqua.

In 1996, RMT advanced additional soil borings to further define the extent of PCE contamination in soil. The results showed that PCE impacts in soil were limited to the eastern end of the former Northwoods Laundry site at concentrations ranging from 2.1 µg/kg to 3,100 µg/kg. Impacted soil was limited to the upper two (2) feet over the majority of the area. However, PCE was detected to a depth of four (4) feet below land surface (bls) at two (2) locations. Giles and RMT drilled twenty-four (24) soil borings at the former Northwoods Laundry site, with five (5) borings extending to seventeen (17) feet bls. The extent of VOC was limited to the upper four (4) feet. (Remedial Action Plan, RMT, Inc., July 1996)

In 1996, approximately 350 tons of PCE-impacted soils were excavated and treated off-site by incorporation in asphalt. Following source removal, the Northwoods Laundry (BRRTS #02-44-000517) was granted case closure on October 2, 1996. (Remedial Documentation, WisDOT USH 51 Reconstruction Project, by RMT, Inc., September 1996) According to the Remedial Documentation Report, shallow PCE contaminated soil was remediated via over-excavation. See Figure B.2.B Residual Soil Contamination map in the attached Continuing Obligations packet which identifies depths of the excavation during soil source removal at the subject property.

CVOC detections in groundwater were identified in adjacent LUST sites (BRRTS #03-44-001150 & #03-44-000829) which prompted the Northwoods Laundry case to be reopened by WDNR on September 28, 1998.

In May 2017, TRC installed fifteen (15) small diameter groundwater monitoring wells to collect off-site downgradient samples. Based on the groundwater CVOC plume extents defined in the 2017 sampling, TRC also conducted a vapor intrusion assessment to identify which on- or off-site receptors may be at risk for vapor intrusion. Based on the vapor intrusion assessment, nine (9) properties required vapor intrusion investigation. (Vapor Intrusion Investigation Work Plan, by TRC, March 2018)

Two (2) rounds of background (outdoor air), indoor air, and sub-slab vapor samples were collected from the on-site and off-site properties identified on Figure B.4.a.i. Samples were collected in March and June/July 2018. CVOCs were detected in outdoor air, indoor air, and sub-slab vapor samples, but no samples exceed applicable indoor air VALs or sub-slab VRSLs.

Following additional investigation, the Northwoods Laundry site was granted Final Case Closure with Continuing Obligations on August 18, 2020. The area of soil and groundwater contamination listed at the time of closure is shown on the attached site map (Figure 2).

On August 25, 2022, REI submitted a Post Closure Modification Request to the WDNR for site redevelopment of the subject property with associated closed ERP case (BRRTS #02-44-000517). The request identified actions during site redevelopment that included soil screening and potential for soil sampling, profiling, and managing materials. This Soil

Management Plan is in response to additional inquiry by WDNR whom requested more specific documentation on the proposed management of soil during redevelopment.

### **CONTINUING OBLIGATIONS**

The Final Case Closure with Continuing Obligations letter for Northwoods Laundry (BRRTS #02-44-000517) listed the following continuing obligations for residual soil contamination:

1. **Residual Soil Contamination:** Tetrachloroethene soil contamination remains in the southeast portion of the source property extending under the former building foundation and into the right-of-way of US Highway 51/Chippewa Street. A small area of soil contamination is beneath the right-of-way of US Highway 51/Chippewa Street around soil boring B-1/TB3-1, as indicated on the attached Figure B.2.B Residual Soil Contamination, prepared by TRC and dated December 21, 2018. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way 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 right-of-way 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 Wis. Admin. Code ch NR 718, with prior DNR approval. This continuing obligation also applies to the owner of former 405 Front Street [MI 3262] and the ROW holders of US Highway 51/Chippewa Street.

In addition, all current and future owners and occupants of the property and right-of-way 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.

### **SOIL MANAGEMENT**

Uniform fine to medium grained sand from just below the surface to the maximum depth of borings of 35 feet below land surface (bls) was observed in previous site investigative work. Trace amounts of clay and fine gravel were observed in some borings. Bedrock was not encountered during previous site investigation. Precambrian bedrock is expected to be 100 bls. Groundwater was identified at 13 – 19 feet bls and is not expected to be encountered during redevelopment.

Soil contamination remains at the subject property in the footprint of the proposed redevelopment exceeding the WAC ch. NR 720 Groundwater Pathway Protection RCL for tetrachloroethylene. The contractor shall notify REI when excavation occurs in the area of potential residual contaminated soil. REI will be on site and will screen disturbed soils with a photoionization detector to determine if impacted soils will be disturbed. Any significantly impacted soils will be stockpiled on plastic, covered, and profiled for disposal. See attached Figure 3.

Sewer & water laterals are expected to route to the proposed building on the north side of the property from mains located along Front Street. Any soil excavated during installation of laterals will be replaced in the utility trench. Soils will be temporarily stored directly adjacent to the utility trench for immediate backfilling following completion of utility installation. REI will be on site during excavation of the utility trench and will screen excavated soils with a

photoionization detector to determine if impacted soils remain. Any significantly impacted soils will be stockpiled on plastic, covered, and profiled for disposal.

Contaminated soil encountered during excavation activities that requires export will be hauled off-site by the contractor (WI licensed solid waste hauler) for disposal at Lincoln County Landfill in Merrill, WI as non-hazardous solid waste. Each load will require a signed manifest by REI.

**Landfill Location:**

Lincoln County Landfill  
N4750 Landfill Lane  
Merrill, WI  
Contact: Keith Cohrs, (715) 536-9636, [keith.cohrs@co.lincoln.wi.us](mailto:keith.cohrs@co.lincoln.wi.us)

**CONTACTS**

If soil contamination is suspected or encountered when the environmental consultant is not present, the below REI project manager must be immediately notified, and work shall halt in that area.

**Environmental Consultant (REI) Contact:**

Brian Bailey  
Office: (715) 675-9784  
Cell: (715) 571-3020


**CONCLUSIONS**

Contaminated soil has previously been identified in the area of redevelopment of the proposed Bottled Bean LLC location. REI will be onsite during excavation of soil to document removal and direct proper management of this soil in accordance with regulatory requirements. Contaminated soil will be hauled off-site by a licensed solid waste hauler for disposal at Lincoln County Landfill in Merrill, WI as non-hazardous solid waste.

If any unusual materials or debris, soils with questionable odors or staining, previously unknown "orphan" tanks, or any other suspect environmental conditions are encountered during site development, the environmental consultant must be notified immediately, and work should halt in that area until further notice.

It should be noted that following project completion, a post construction documentation report is required for submittal to WDNR documenting the proper handling and disposal of soil from the property.

Please contact Brian Bailey at (715) 675-9784 or [bbailey@REIengineering.com](mailto:bbailey@REIengineering.com) if you have any questions or require further information.

Drafted By:   
Brian J. Bailey  
Scientist/Project Manager



Reviewed By: \_\_\_\_\_



Andrew R. Delforge P.G.  
Senior Hydrogeologist

**Attachments:**

Attachment A – Figures

Attachment B – Tables

Attachment C – Boring Logs

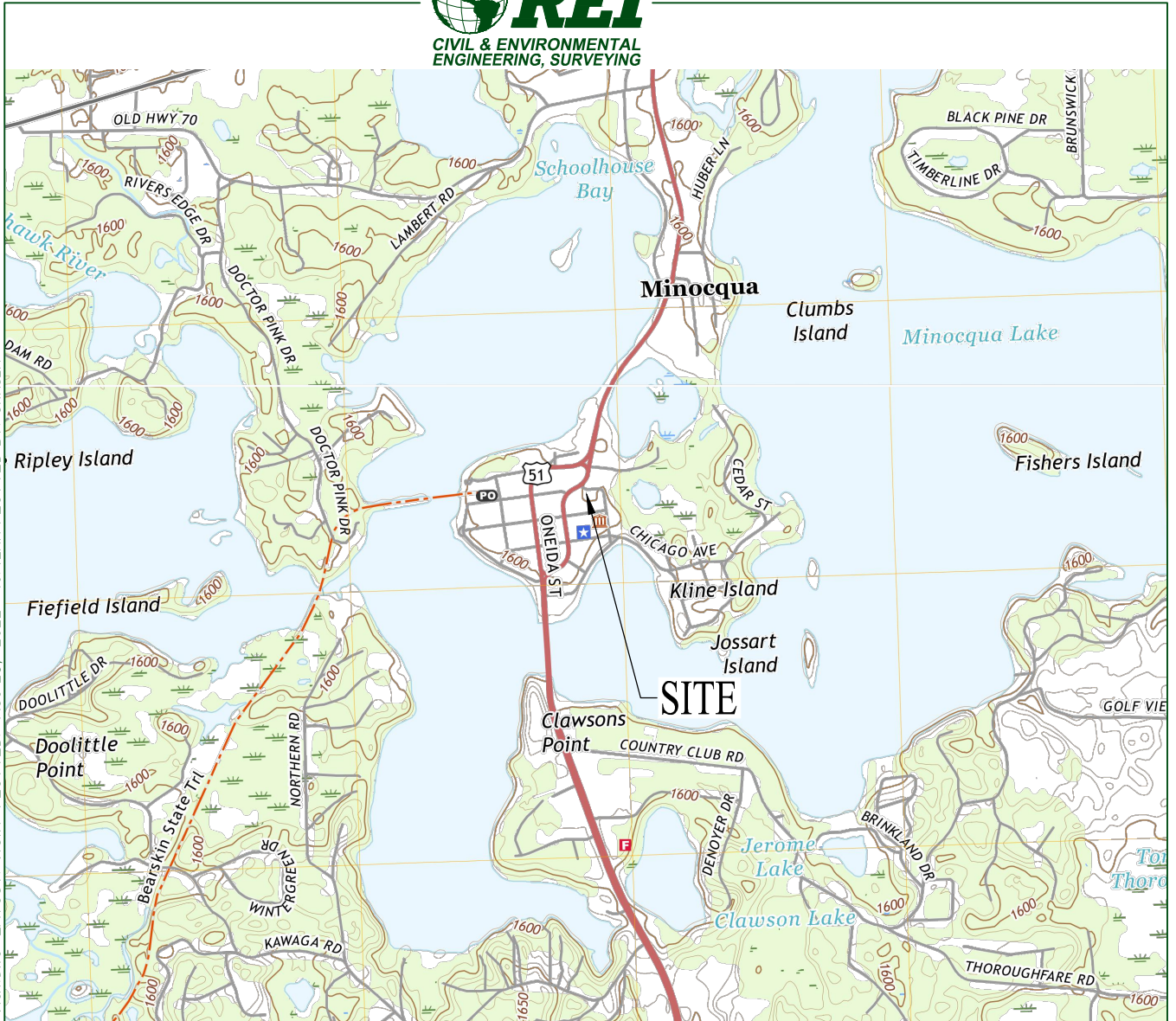
Attachment D – Historical Case Closure Documents

# **ATTACHMENT A**

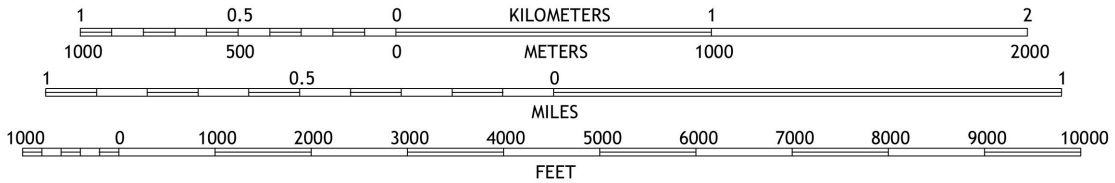
## **FIGURES**



DRAWING FILE: Q:\10500 - 10599\10587A - KNOBECK PROPERTY - PC\M\DWG\10587A-VICN.DWG LAYOUT: VICIN PLOTTED: Aug 23, 2022 - 10:42AM PLOTTED BY: CHASEK



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

MN  
 GN  
 2°52'  
 51 MILS  
 1°56'  
 34 MILS

**HAZELHURST QUADRANGLE**  
**WISCONSIN - ONEIDA COUNTY**  
**7.5-MINUTE SERIES**



QUADRANGLE LOCATION

UTM GRID AND 2019 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

REI ENGINEERING, INC.

KNOBECK PROPERTY  
518 CHIPPEWA STREET  
MINOCQUA, WI 54548



FIGURE 1 : VICINITY MAP

PROJECT NO.

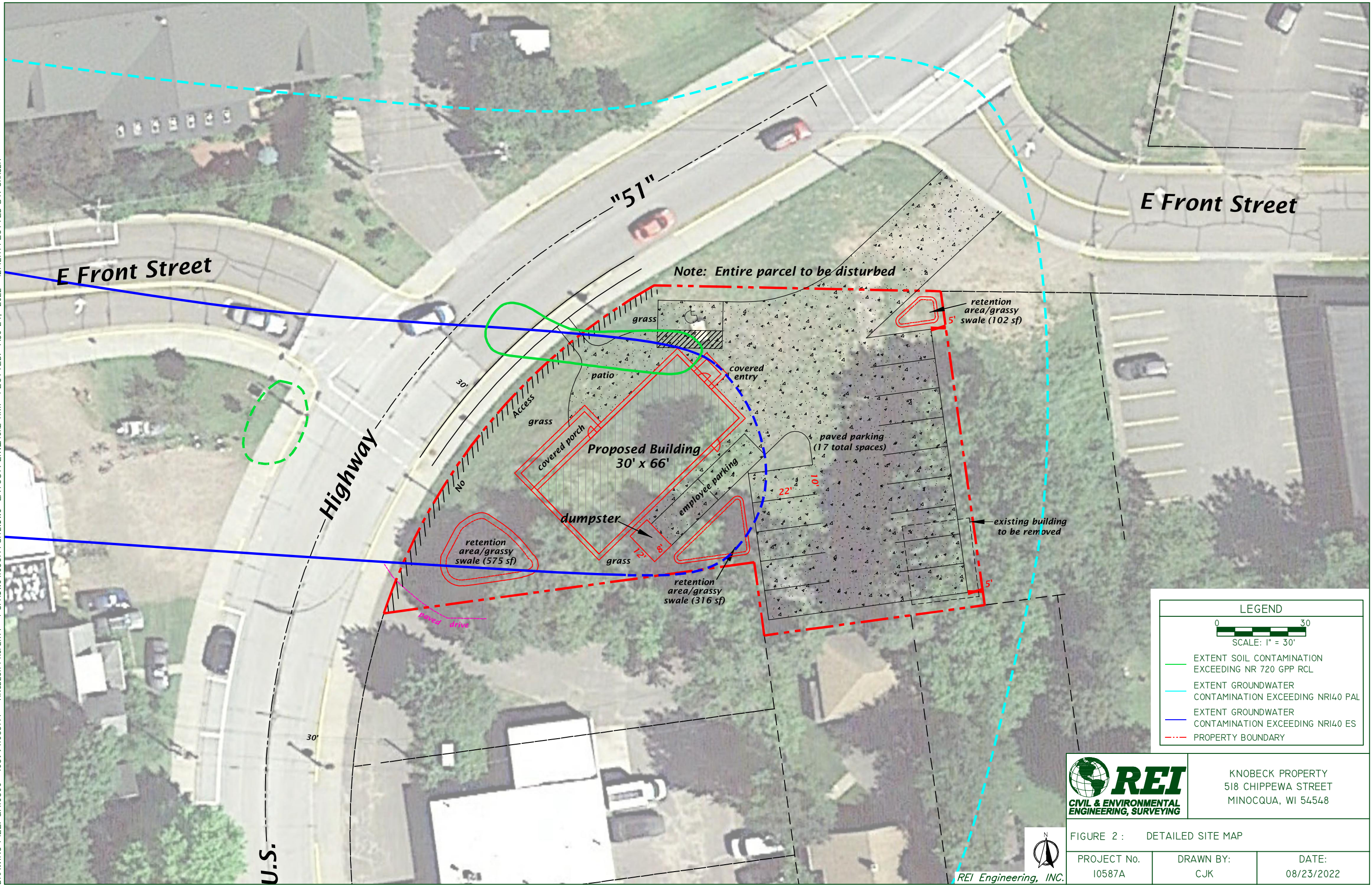
10587A

DRAWN BY:  
CJK

DATE:  
08/23/2022



DRAWING FILE: Q:\10500 - 1059\10587A - KNOBECK PROPERTY - PC\10587A-SITE.DWG LAYOUT: ENV-Horz-1x17 PLOTTED: Aug 24, 2022 - 12:42PM PLOTTED BY: CHASEK



**LEGEND**

0 30  
SCALE: 1" = 30'

- EXTENT SOIL CONTAMINATION EXCEEDING NR 720 GPP RCL
- EXTENT GROUNDWATER CONTAMINATION EXCEEDING NRI40 PAL
- EXTENT GROUNDWATER CONTAMINATION EXCEEDING NRI40 ES
- PROPERTY BOUNDARY



KNOBECK PROPERTY  
518 CHIPPEWA STREET  
MINOCQUA, WI 54548

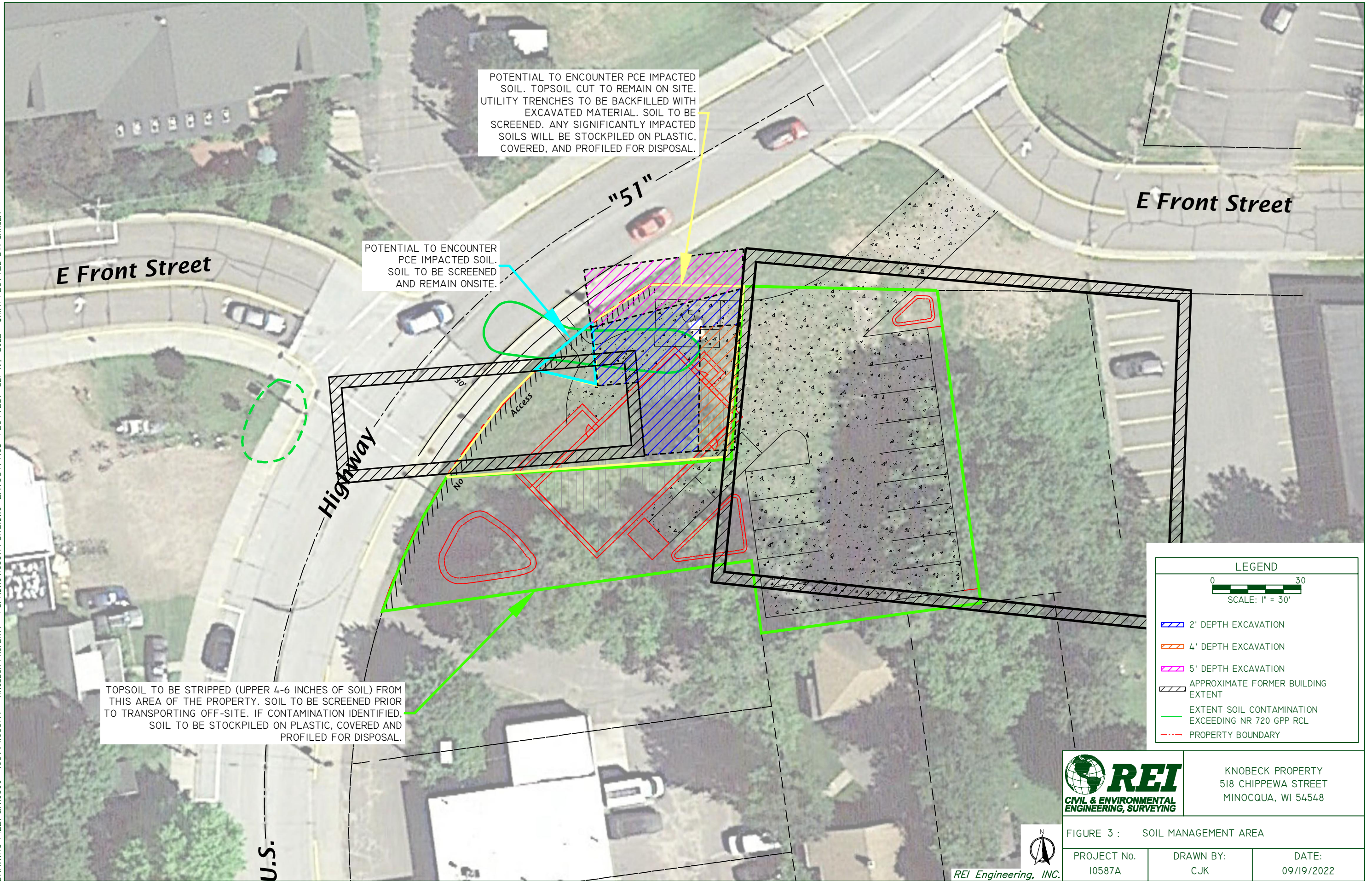
FIGURE 2 : DETAILED SITE MAP

PROJECT No. 10587A	DRAWN BY: CJK	DATE: 08/23/2022
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DRAWING FILE: Q:\10500 - 10599\10587A - KNOBECK PROPERTY - FCM\DWG\10587A-SITE.DWG LAYOUT: FIG3 PLOTTED: SEP 19, 2022 - 3:11PM PLOTTED BY: CHASEK





# **ATTACHMENT B**

## **TABLES**



Table A.2  
Soil Analytical Results Table  
Northwoods Laundry (BRRTS #02-44-000517, WISDOT #0656-50-31)  
Minocqua, Oneida County, Wisconsin  
TRC Project # 298526.0000.0000

BRRTS SITE	BORING ID	DATE	ANALYTE <sup>(1)</sup>	PCE	TCE	CIS-1,2 DCE	TRANS-1,2 DCE	VC
			GW PATH <sup>(2)</sup>	0.0045	0.0036	0.0412	0.0626	0.0001
			NON-INDUST. <sup>(3)</sup>	33	1.3	156	1560	0.067
			INDUST. <sup>(3)</sup>	145	8.41	2340	1850	2.08
			DEPTH	RESULTS				
Northwoods Laundry (BRRTS #02-44-000517)	B-1	8/16/1994	2.3-5	1.2	<1.1	<1.1	<1.1	<1.1
			17-18.5 <sup>(5)</sup>	<1.2	<1.2	<1.2	<1.2	
	B-2	8/16/1994	2.3-5	1.9	<0.98	<0.98	<0.98	
			19.5-21 <sup>(5)</sup>	<1.1	<1.1	<1.1	<1.1	
	B-3	8/16/1994	2.3-5	54	<1.0	<1.0	<1.0	
			19.5-21 <sup>(5)</sup>	<1.2	<1.2	<1.2	<1.2	
	B-4	8/16/1994	3-5	<0.54	<0.43	<0.86	<0.86	
			15-17	<0.50	<0.40	<0.81	<0.81	
	B-5	8/16/1994	0.5-2	1.6	<0.44	<0.89	<0.89	
			4-6	<0.53	<0.43	<0.85	<0.85	
	B-6	8/16/1994	2-4	<0.62	<0.49	<0.99	<0.99	
			4-6	<0.58	<0.46	<0.93	<0.93	
	B-7	8/16/1994	3-5	<0.54	<0.43	<0.86	<0.86	
			18-20 <sup>(5)</sup>	<0.59	<0.47	<0.94	<0.94	
	B-8	8/16/1994	0.5-2	2.3	<0.43	<0.86	<0.86	
			4-6	<0.54	<0.43	<0.86	<0.86	
B-9	8/16/1994	0.5-2	360 E	<2.0	<4.0	<4.0		
		2-4	4.4	<0.47	<0.94	<0.94		
G-1	1996	0-2	33	<1.1	<2.2	<1.1		
		2-4	<2.1	<1.1	<2.1	<1.1		
		4-6	<2.2	<1.1	<2.2	<1.1		
G-2	1996	0-2	1500	<58	<120	<58		
		2-4	<2.3	<1.1	<2.3	<1.1		
		4-6	<2.1	<1.1	<2.1	<1.1		
G-3	1996	0-2	68	<5.7	<11	<5.7		
		2-4	<2.2	<1.1	<2.2	<1.1		
		4-6	<2.3	<1.1	<2.3	<1.1		
G-4	1996	0-2	<18	<1.1	<2.2	<1.1		
		2-4	<2.3	<1.1	<2.3	<1.1		
		4-6	<2.5	<1.3	<2.5	<1.3		
G-5	1996	0-2	<2.2	<1.1	<2.2	<1.1		
		2-4	<2.0	<1.0	<2.0	<1.0		
		4-6	<2.0	<1.0	<2.0	<1.0		
G-6	1996	4-6	<2.1	<1.1	<2.1	<1.1		
		0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
G-7	1996	4-6	<25	<25	<25	<25		
		0-2	130	<25	<25	<25		
		2-4	36	<25	<25	<25		
G-8	1996	4-6	<25	<25	<25	<25		
		0-2	170	<25	<25	<25		
		2-4	68	<25	<25	<25		
G-9	1996	4-6	<25	<25	<25	<25		
		0-2	2600	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-10	1996	0-2	1300	<25	<25	<25		
		2-4	3600	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-11	1996	0-2	190	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-12	1996	0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-13	1996	0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-14	1996	0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-15	1996	0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		
G-16	1996	0-2	<25	<25	<25	<25		
		2-4	<25	<25	<25	<25		
		4-6	<25	<25	<25	<25		

**Table A.3**  
**Residual Soil Contamination Table**  
**Northwoods Laundry (BRRTS #02-44-000517, WISDOT #0656-50-31)**  
**Minocqua, Oneida County, Wisconsin**  
**TRC Project # 298526.0000.0000**

BRRTS SITE	BORING ID	DATE	ANALYTE <sup>(1)</sup>	PCE	TCE	CIS-1,2 DCE	TRANS-1,2 DCE	VC
			GW PATH <sup>(2)</sup>	0.0045	0.0036	0.0412	0.0626	0.0001
			NON-INDUST. <sup>(3)</sup>	33	1.3	156	1560	0.067
			INDUST. <sup>(3)</sup>	145	8.41	2340	1850	2.08
DEPTH			RESULTS					
Northwoods Laundry (BRRTS #02-44-000517)	B-1	8/16/1994	2.3-5	1.2	<1.1	<1.1		<1.1
	B-2	8/16/1994	2.3-5	1.9	<0.98	<0.98		<0.98
	B-9	8/16/1994	2-4	4.4	<0.47	<0.94		<0.94

**Notes:**

1. Units are in mg/kg (ppm)
2. ND = not detected above the detection limit, with the detection limit < enforcement standard
3. RCLs = Residual Contaminant Levels.
4. - = Sample not analyzed for this analyte.
5. **Bold** = indicates that the analyte and/or sample exceeds the NR 720 RCL for direct contact (non-industrial or industrial), or standards for hazard index or cancer risk.
6. *Italics* = indicates that the analyte exceeds the groundwater pathway RCL

Created by: A. Schroeder 2/18/16

Checked by: L. Auner 2/29/16

Updated by: A. Enright 11/8/18

Checked by: C. Olson 11/16/2018

**Footnotes:**

- <sup>(1)</sup> Only chlorinated volatile organic compounds are shown in this table.
- <sup>(2)</sup> Value is the generic RCL for the groundwater pathway.
- <sup>(3)</sup> Value is the generic RCL for exposure by direct contact.
- <sup>(4)</sup> Sample value greater than combined dichloroethene PALs of 0.1038 mg/kg.



# **ATTACHMENT C**

## **BORING LOGS**



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

Facility/Project Name <b>Former Northwoods Laundry</b>		License/Permit/Monitoring Number <b>02-44-000517</b>		Boring Number <b>TRC-PZ-03</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental</b>		Date Drilling Started <b>5/25/2017</b>		Date Drilling Completed <b>5/25/2017</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
				<b>TRC-PZ-03</b>	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>1,603.6 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>		State Plane <b>257,112 N, 2,042,825 E S/C/N</b>		Local Grid Location	
<b>SE 1/4 of NW 1/4 of Section 14, T 39 N, R 6 E</b>		Lat <b>89° 42' 29.559"</b>		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long <b>45° 52' 17.026"</b>		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Oneida County</b>		County Code <b>44</b>	
				Civil Town/City/ or Village <b>Minocqua</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	60 36			<b>TOPSOIL</b> , removed for casing prior to sampling.				<1						0-2.5
			2	<b>SILTY SAND (SM)</b> , fine grained, little fine gravel, trace cobble, yellowish red (5YR 4/6), no odor, moist, loose.				<1						2.5-5
2 GP	60 36		6	silty sand, as above.	SM			1.5						5-7.5
			8	<b>SAND WITH GRAVEL (SW)</b> , little cobble sized concrete, black (5YR 2.5/1), no odor, moist, loose, fill.	SW			<1						7.5-10
3 GP	60 36		10	<b>SILTY SAND (SM)</b> , fine grained, yellowish red (5YR 4/6), no odor, moist, loose.				1.6						10-12.5
			12					<1						12.5-15
4 GP	60 36		16	silty sand, as above.	SM			7.8						15-17.5
			18	wet at 18 ft bgs.				<1						17.5-20

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

Signature <i>Al Ewig</i>	Firm <b>TRC Environmental</b> 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **TRC-PZ-03** Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments											
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200												
5 GP	60 48		20-22.5	<b>SILTY SAND (SM)</b> , same as above.				<1					20-22.5												
			22.5-25											SM	<1				22.5-25						
			25-27.5																	silty sand, as above.	<1				25-27.5
			27.5-30																						
7 GP	60 60		30-32.5	silty sand, as above.				<1					30-32.5												
			32-35											ML	<1	<0.5			32.5-35						
			35-35																	Boring terminated at 35 feet bgs (5/25/2017), 1" Temp well set at 35 feet bgs, 5' screen.					

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

Facility/Project Name <b>Former Northwoods Laundry</b>		License/Permit/Monitoring Number <b>02-44-000517</b>		Boring Number <b>TRC-TW-01</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental</b>		Date Drilling Started <b>5/25/2017</b>		Date Drilling Completed <b>5/25/2017</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
				<b>TRC-TW-01</b>	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>1,603.8 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>		State Plane <b>257,081 N, 2,042,896 E S/C(N)</b>		Local Grid Location	
SE 1/4 of NW 1/4 of Section 14, T 39 N, R 6 E		Lat <b>89° 42' 28.552"</b>		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long <b>45° 52' 16.724"</b>		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Oneida County</b>		County Code <b>44</b>	
				Civil Town/City/ or Village <b>Minocqua</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	60 48		0-2	<b>TOPSOIL</b> , sandy, dark reddish brown (5YR 3/4), no odor, moist, loose.				<1						0-2.5
			2-5	<b>SILTY SAND (SM)</b> , fine grained, yellowish red (5YR 4/6), no odor, moist, loose.				<1						2.5-5
2 GP	60 48		5-7.5	silty sand, as above, goes to medium grained with trace gravel, wet at 5-6 feet bgs (rainwater), going back to moist at 6 feet bgs.				<1						5-7.5
			7.5-10				<1						7.5-10	
3 GP	60 36		10-12.5	silty sand, as above.	SM			3.5						10-12.5
			12.5-15				<1						12.5-15	
4 GP	60 36		15-17.5	silty sand, as above.				1.0						15-17.5
			17.5-20	wet at 18 ft bgs.				<1						17.5-20

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

Signature <i>Alw Emight</i>	Firm <b>TRC Environmental</b> 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



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

Facility/Project Name <b>Former Northwoods Laundry</b>		License/Permit/Monitoring Number <b>02-44-000517</b>		Boring Number <b>TRC-TW-02</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental</b>		Date Drilling Started <b>5/25/2017</b>		Date Drilling Completed <b>5/25/2017</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
				<b>TRC-TW-02</b>	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>1,602.6 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>		State Plane <b>257,181 N, 2,042,918 E S/C/N</b>		Local Grid Location	
<b>SE 1/4 of NW 1/4 of Section 14, T 39 N, R 6 E</b>		Lat <b>89° 42' 28.241"</b>		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long <b>45° 52' 17.708"</b>		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Oneida County</b>		County Code <b>44</b>	
				Civil Town/City/ or Village <b>Minocqua</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	60 12			<b>TOPSOIL</b> , removed for casing prior to sampling.				<1						0-5
			2	<b>SILTY SAND (SM)</b> , fine grained, yellowish red (5YR 4/6), no odor, moist, loose.	SM									
2 GP	60 24		6	silty sand, as above.				<1						5-7.5
			8	<b>SILTY CLAY (CL-ML)</b> , fine grained, low plasticity, yellowish red (5YR 4/6), no odor, moist, very stiff.	CL-ML			<1	3.5					7.5-10
				<b>SILTY SAND (SM)</b> , fine grained, yellowish red (5YR 4/6), no odor, moist, loose.										
3 GP	60 30		10					3.5						10-12.5
			12	silty sand, as above, goes to coarse grained.										
			14		SM									
4 GP	60 30		16	silty sand, as above.				3.2						15-17.5
			18	wet at 17 ft bgs.										
			20					<1						17.5-20

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

Signature <i>ALD Emig</i>	Firm <b>TRC Environmental</b> 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Former Northwoods Laundry</b>		License/Permit/Monitoring Number <b>02-44-000517</b>		Boring Number <b>TRC-TW-03</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental</b>		Date Drilling Started <b>5/25/2017</b>		Date Drilling Completed <b>5/25/2017</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name <b>TRC-TW-03</b>	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>1,603.5 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane <b>257,116 N, 2,042,829 E S/C(N)</b>		Lat <b>89° 42' 29.504"</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>SE 1/4 of NW 1/4 of Section 14, T 39 N, R 6 E</b>		Long <b>45° 52' 17.068"</b>		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County <b>Oneida County</b>		County Code <b>44</b>	
				Civil Town/City/ or Village <b>Minocqua</b>	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			2	<b>BLIND DRILLED</b> , see TRC-PZ-03 for lithology.										
			4		SM									
			6											
			8		SW									
			10											
			12											
			14		SM									
			16											
			18											
			20											

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

Signature <i>Ala Enright</i>	Firm <b>TRC Environmental</b> 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.





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

Facility/Project Name <b>Former Northwoods Laundry</b>		License/Permit/Monitoring Number <b>02-44-000517</b>		Boring Number <b>TRC-TW-04</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Tony Kapugi On-Site Environmental</b>		Date Drilling Started <b>5/25/2017</b>		Date Drilling Completed <b>5/25/2017</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
				<b>TRC-TW-04</b>	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>1,603.6 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>		State Plane <b>257,049 N, 2,042,799 E S/C/N</b>		Local Grid Location	
SE 1/4 of NW 1/4 of Section 14, T 39 N, R 6 E		Lat <b>89° 42' 29.924"</b>		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long <b>45° 52' 16.41"</b>		<input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Oneida County</b>	County Code <b>44</b>	Civil Town/City/ or Village <b>Minocqua</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 24			<b>FILL</b> , gravel, removed for casing prior to sampling.				<1							0-2.5
			2	<b>FILL</b> , glass and concrete											
				<b>SILTY SAND (SM)</b> , fine grained, reddish yellow (7.5YR 6/6), no odor, moist, loose.				<1							2.5-5
2 GP	60 42		6	silty sand, as above, yellowish red (5YR 4/6).				<1							5-7.5
			8					<1							7.5-10
3 GP	60 42		10	silty sand, as above.	SM			16.0							10-12.5
			12					<1							12.5-15
4 GP	60 48		16	silty sand, as above.				6.0							15-17.5
			18					<1							17.5-20
			20	wet at 19 ft bgs.											

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

Signature <i>Alw Ewig</i>	Firm <b>TRC Environmental</b> 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



## **ATTACHMENT D**

### **HISTORICAL CASE CLOSURE DOCUMENTS**





August 18, 2020

DEPARTMENT OF TRANSPORTATION  
ATTN: SHARLENE TE BEEST  
PO BOX 7965  
ROOM 5 SOUTH S513.12  
MADISON WI 53707-7965

MR WILLIAM R SCHMITZ  
N95 W26740 COUNTY HWY Q  
COLGATE WI 53017

**KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS**

SUBJECT: Final Case Closure with Continuing Obligations  
Northwoods Laundry, 405 Front Street, Minocqua, Wisconsin  
DNR BRRTS Activity #02-44-000517  
FID #744076960

Dear Ms. Te Beest and Mr. Schmitz:

The Department of Natural Resources (DNR) considers the Northwoods Laundry site 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 holders. These are identified within each continuing obligation.

This final closure decision is based on the correspondence and data provided and is issued under Wis. Admin. Code chs. NR 726 and 727. The DNR's Northern Region Closure Committee reviewed the request for closure on August 1, 2019. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on August 6, 2019, and documentation that the conditions in that letter were met was received on September 13, 2019.

The investigative and remedial activities completed at this site were conducted for the discharge of hazardous substances, environmental pollution, or both (hereinafter referred to as contamination) at this site, which was historically used as a hotel and tavern, later housing a real estate office, liquor store, and a laundry and dry-cleaning business. Case closure under Wis. Admin. Code chs. NR 726 and NR 727 is granted for the contaminants analyzed during the site investigation, as documented in the DNR case file. The laundry and dry-cleaning business began operating in the 1970s with the dry-cleaning operations ceasing in 1992. Contamination was discovered in 1993 during a Phase II assessment. The Department of Transportation acquired a portion of the property in 1995 for the re-alignment of US Highway 51/Chippewa Street. The site was closed in 1996 following

remediation work associated with the US Highway 51/Chippewa Street reconstruction but was re-opened in 1998 due to detections of chlorinated compounds in groundwater at nearby active remediation sites. Remedial actions included excavation of contaminated soils and groundwater monitoring. Remaining soil and groundwater contamination will be addressed through natural attenuation. 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 Wis. Admin. Code ch. NR 140, enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.

The enclosed 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 online at [dnr.wi.gov](http://dnr.wi.gov) and search “RR-819”.

#### DNR Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) online at [dnr.wi.gov](http://dnr.wi.gov) and search “BOTW”, 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, at [dnr.wi.gov](http://dnr.wi.gov) and search “RRSM”.

The DNR’s approval prior to well construction or reconstruction is required in accordance with Wis. Admin. Code s. NR 812.09 (4) (w). 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 [dnr.wi.gov](http://dnr.wi.gov) and search “3300-254”.

All site information is also on file at the DNR’s Northern Region office, at 107 Sutliff Avenue in Rhinelander, Wisconsin. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under Wis. Stat. § 292.11, 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  
107 Sutliff Avenue  
Rhinelander, Wisconsin 54501

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

Tetrachloroethene (PCE) and trichloroethane (TCE) groundwater contamination greater than enforcement standards are present both on this contaminated property and off this contaminated property, as shown on the attached Figures B.3.B.I PCE Isoconcentration Map July 2018 and B.3.B.II: TCE Isoconcentration Map July 2018, prepared by TRC and dated December 21, 2018. If you intend to construct a new well, or reconstruct an existing well, you’ll need prior DNR approval. Affected property owners and right-of-way holders were notified of the presence of groundwater contamination. This continuing obligation also applies to the owners of the

following street addresses [Parcel Identification Numbers]: former 405 Front Street [MI 3262-1, MI 3263 and MI 3261-3]; 515 Chippewa Street [MI 3239]; 329 Front Street [MI 3240]; no street address [MI 3241]; 321 Front Street [MI 3242]; 313-317 Front Street [MI 3243]; 301-307 Front Street [MI 3245 and MI 3246]; 300 Front Street [MI 2205-9 and MI 2205-10]; and the ROW holders for Front Street, unnamed north-south alleyway (300 block of West Front Street between West Front Street and Milwaukee Street), US Highway 51/Chippewa Street and US Highway 51/Oneida Street.

Residual Soil Contamination (Wis. Admin. Code ch. NR 718, chs. NR 500 to 536, or Wis. Stat. ch. 289)

Tetrachloroethene soil contamination remains in the southeast portion of the source property extending under the former building foundation and into the right-of-way of US Highway 51/Chippewa Street. A small area of soil contamination is beneath the right-of-way of US Highway 51/Chippewa Street around soil boring B-1/TB3-1, as indicated on the attached Figure B.2.B Residual Soil Contamination, prepared by TRC and dated December 21, 2018. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way 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 right-of-way 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 Wis. Admin. Code ch. NR 718, with prior DNR approval. This continuing obligation also applies to the owner of former 405 Front Street [MI 3262] and the ROW holders for US Highway 51/Chippewa Street

In addition, all current and future owners and occupants of the property and right-of-way 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.

#### In Closing

Please be aware that the case may be reopened pursuant to Wis. Admin. Code § NR 727.13, 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 Wis. Stat. § 292.15, 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 Carrie Stoltz at (715) 360-1966 or at [Carrie.Stoltz@Wisconsin.gov](mailto:Carrie.Stoltz@Wisconsin.gov). You can also contact me at (715) 208-4004 or by email at [Christopher.Saari@wisconsin.gov](mailto:Christopher.Saari@wisconsin.gov).

Sincerely,



Christopher A. Saari  
Northern Region Team Supervisor  
Remediation and Redevelopment Program

Enclosure: Continuing Obligations for Environmental Protection, DNR Publication RR-819

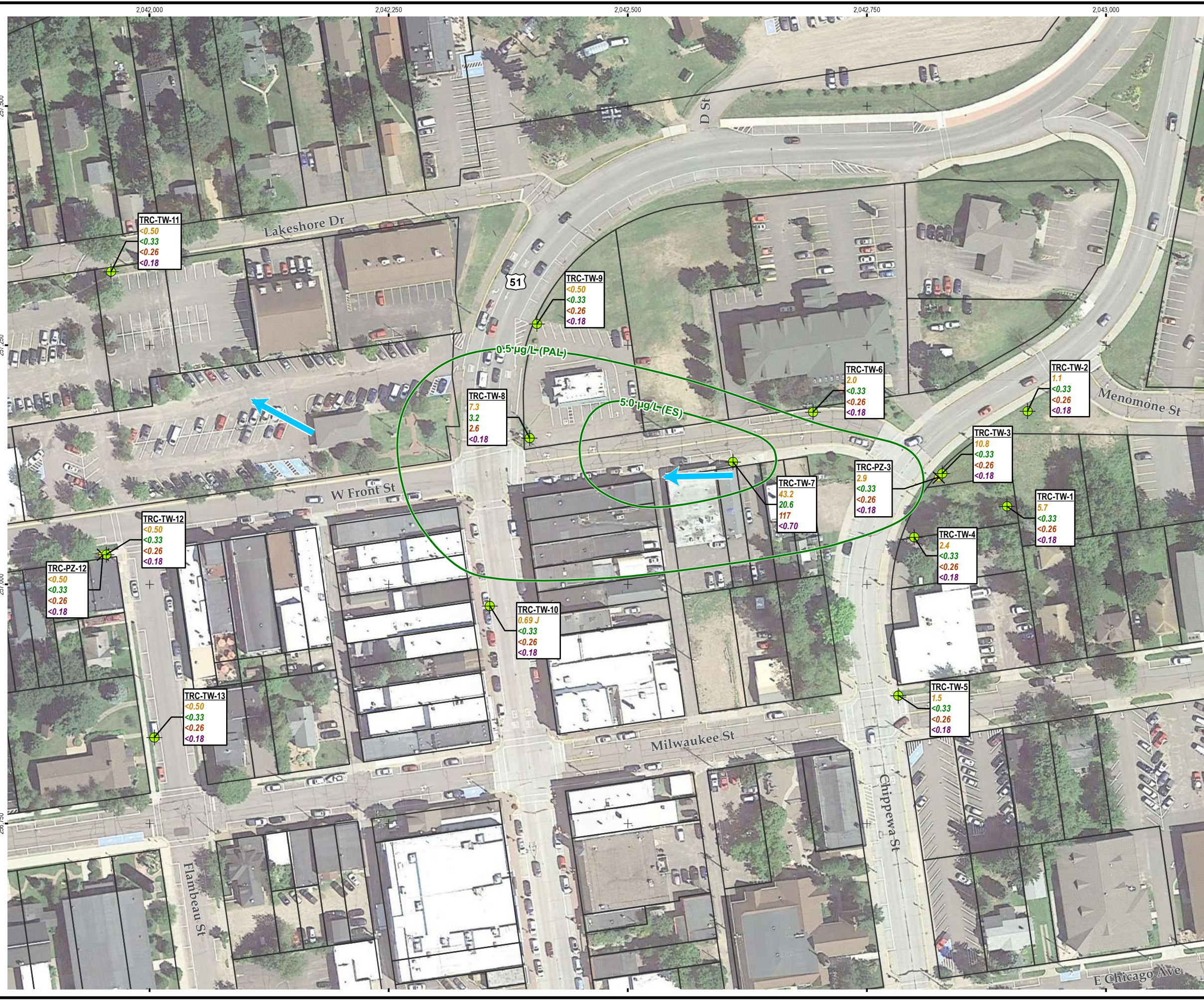
Attachments:

- Figure B.3.B.I PCE Isoconcentration Map July 2018, TRC, December 21, 2018
- Figure B.3.B.II TCE Isoconcentration Map July 2018, TRC, December 21, 2018
- Figure B.2.B Residual Soil Contamination, TRC, December 21, 2018

cc: Dan Haak – TRC (via email)  
Steve Sellwood – TRC (via email)  
Carrie Stoltz – DNR Rhinelander (via email)



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 12/21/2018, 08:59:50 AM by ADAIR -- LAYOUT: ANSI B(11"x17")  
 Path: E:\W\DOT\2016\_242567\298526-021.mxd



**LEGEND**

- TRC TEMPORARY PIEZOMETER
- TRC TEMPORARY WATER TABLE WELL
- JULY 2018 TCE ISOCONCENTRATION CONTOUR
- APPROXIMATE PARCEL BOUNDARY
- GROUNDWATER FLOW DIRECTION

WELL ID	CONCENTRATIONS OF CVOCs (µg/L)
PCE	
TCE	
cis-1,2-DCE	
VC	

- NOTES**
- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
  - MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
  - TRC TEMPORARY WELLS AND PIEZOMETERS INSTALLED MAY 25<sup>TH</sup> AND 26<sup>TH</sup>, 2017.
  - PARCEL DATA ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE. LOCATIONS ARE APPROXIMATE.
  - SAMPLES COLLECTED DURING JULY 11<sup>TH</sup> AND JULY 12<sup>TH</sup>, 2018.
  - "J" ESTIMATED CONCENTRATION ABOVE THE ADJUSTED METHOD DETECTION LIMIT AND BELOW THE ADJUSTED REPORTING LIMIT.



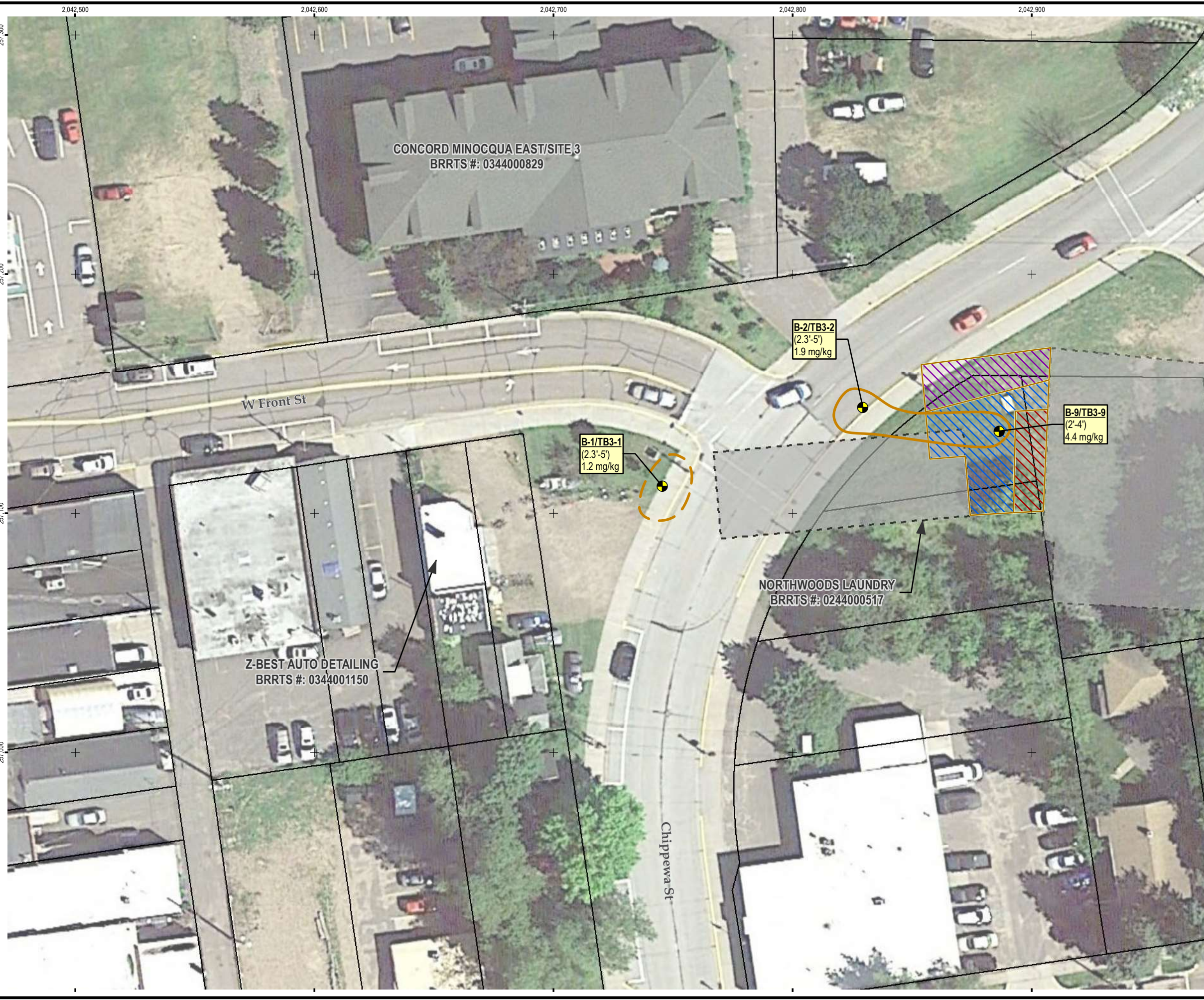
PROJECT:		<b>WISDOT ID# 0656-50-31, BRRTS #02-44-000517 FORMER NORTHWOODS LAUNDRY MINOCQUA, ONEIDA COUNTY, WISCONSIN</b>	
TITLE:		<b>TCE ISOCONCENTRATION MAP JULY 2018</b>	
DRAWN BY:	A. ADAIR	PROJ NO.:	298526
CHECKED BY:	A. ENRIGHT	<b>FIGURE B.3.B.II</b>	
APPROVED BY:	T. O'CONNELL		
DATE:	DECEMBER 2018		

708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-021.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 12/21/2018, 09:03:35 AM by AADAIR -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WJ\_DOT\2016\_242567\298526-015.mxd



**LEGEND**

- APPROXIMATE SOIL BORING LOCATION
- NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE (DASHED WHERE INFERRED)
- 2' DEPTH EXCAVATION
- 4' DEPTH EXCAVATION
- 5' DEPTH EXCAVATION
- APPROXIMATE FORMER BUILDING EXTENT
- TAX PARCEL

**SAMPLE ID**  
 (DEPTH IN FEET)  
 PCE CONCENTRATION (mg/kg)

**NOTES**

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
3. ALL MAP FEATURE LOCATIONS ARE APPROXIMATE.
4. SOIL DATA SHOWN WAS COLLECTED DURING AN INVESTIGATION COMPLETED IN 1994. ONLY SAMPLE RESULTS OUT OF THE LIMITS OF THE REMEDIAL EXCAVATIONS WITH NR 720 EXCEEDANCES ARE SHOWN. THE NOTED RESULTS ARE ESTIMATED BASED ON HISTORICAL SITE INFORMATION.
5. ACCORDING TO RMT'S REMEDIAL DOCUMENTATION REPORT (1996), SHALLOW PCE CONTAMINATED SOIL WAS REMEDIATED VIA OVER-EXCAVATION AND ASPHALT INCORPORATION IN CONJUNCTION WITH THE USH 51 RECONSTRUCTION PROJECT. SOIL DATA FROM BORING B-5/TB3-5 AND B-8/TB3-8 WAS NOT USED FOR DELINEATION OF THE NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE EXTENTS.

0 40 80  
 Feet  
 1" = 40'  
 1:480

PROJECT: **WISDOT ID# 0656-50-31, BRRTS# 02-44-000517  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **RESIDUAL SOIL CONTAMINATION**

DRAWN BY: A. ADAIR PROJ NO.: 298526  
 CHECKED BY: A. ENRIGHT  
 APPROVED BY: T. O'CONNELL  
 DATE: DECEMBER 2018

**FIGURE B.2.B**

708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-015.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 12/21/2018, 09:01:17 AM by ADAIR -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WI\_DOT\2016\_242567\298526-022.mxd



**LEGEND**

- ✕ TRC TEMPORARY PIEZOMETER
- ⊕ TRC TEMPORARY WATER TABLE WELL
- ~ JULY 2018 PCE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE PARCEL BOUNDARY
- ➡ GROUNDWATER FLOW DIRECTION

**WELL ID**

PCE  
 TCE  
 cis-1,2-DCE  
 VC

CONCENTRATIONS OF CVOCs (µg/L)

**NOTES**

- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
- MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
- TRC TEMPORARY WELLS AND PIEZOMETERS INSTALLED MAY 25<sup>TH</sup> AND 26<sup>TH</sup>, 2017.
- PARCEL DATA ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE. LOCATIONS ARE APPROXIMATE.
- SAMPLES COLLECTED DURING JULY 11<sup>TH</sup> AND JULY 12<sup>TH</sup>, 2018.
- "J" ESTIMATED CONCENTRATION ABOVE THE ADJUSTED METHOD DETECTION LIMIT AND BELOW THE ADJUSTED REPORTING LIMIT.

0 100 200 Feet  
 1" = 100'  
 1:1,200

PROJECT: **WISDOT ID# 0656-50-31, BRRTS# 02-44-000517  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **PCE ISOCONCENTRATION MAP  
 JULY 2018**

DRAWN BY: A. ADAIR PROJ. NO.: 298526  
 CHECKED BY: A. ENRIGHT  
 APPROVED BY: T. O'CONNELL  
 DATE: DECEMBER 2018

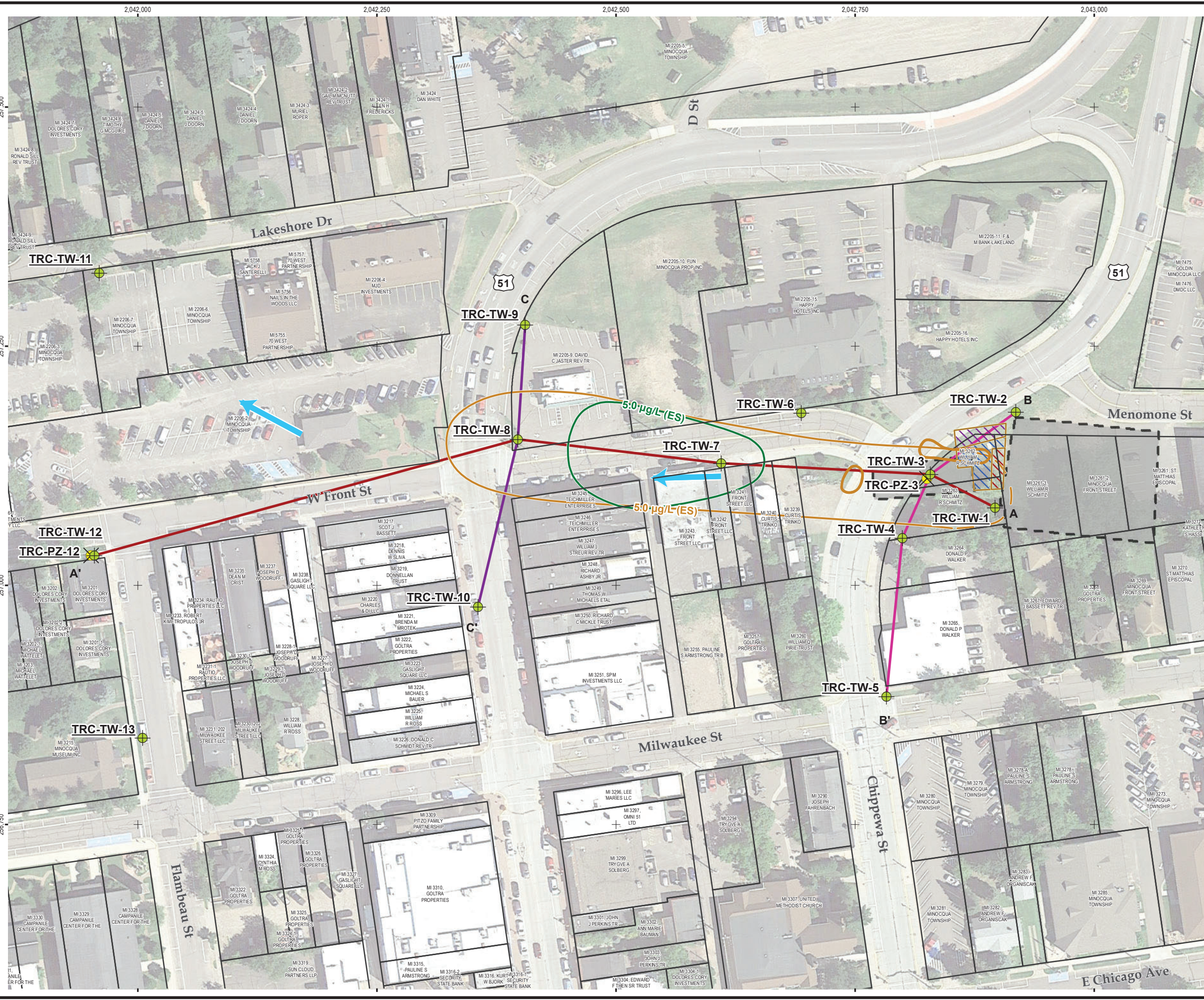
**FIGURE B.3.B.I**

**TRC** 708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-022.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 1/11/2019, 09:11:02 AM by ADAIR -- LAYOUT: ANS\B\11"x17"  
 Path: E:\WI\_DOT\2016\_242567298526-028\_B1B.mxd



### LEGEND

- TRC TEMPORARY PIEZOMETER
- TRC TEMPORARY WATER TABLE WELL
- NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE (DASHED WHERE INFERRED)
- JULY 2018 PCE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- JULY 2018 TCE ISOCONCENTRATION CONTOUR
- APPROXIMATE PARCEL BOUNDARY
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE FORMER BUILDING EXTENT
- 2' DEPTH EXCAVATION
- 4' DEPTH EXCAVATION
- 5' DEPTH EXCAVATION
- A-A' CROSS SECTION
- B-B' CROSS SECTION
- C-C' CROSS SECTION

### NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
3. TRC TEMPORARY WELLS AND PIEZOMETERS INSTALLED MAY 25<sup>TH</sup> AND 26<sup>TH</sup>, 2017.
4. PARCEL DATA ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE. LOCATIONS ARE APPROXIMATE.
5. GROUNDWATER SAMPLES COLLECTED JULY 11<sup>TH</sup> AND JULY 12<sup>TH</sup>, 2018.
6. ALL HISTORICAL MAP FEATURE LOCATIONS ARE APPROXIMATE.

0 100 200 Feet  
 1" = 100'  
 1:1,200

PROJECT: **WISDOT ID# 0656-50-31, BRRTS# 02-44-000517  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **DETAILED SITE MAP**

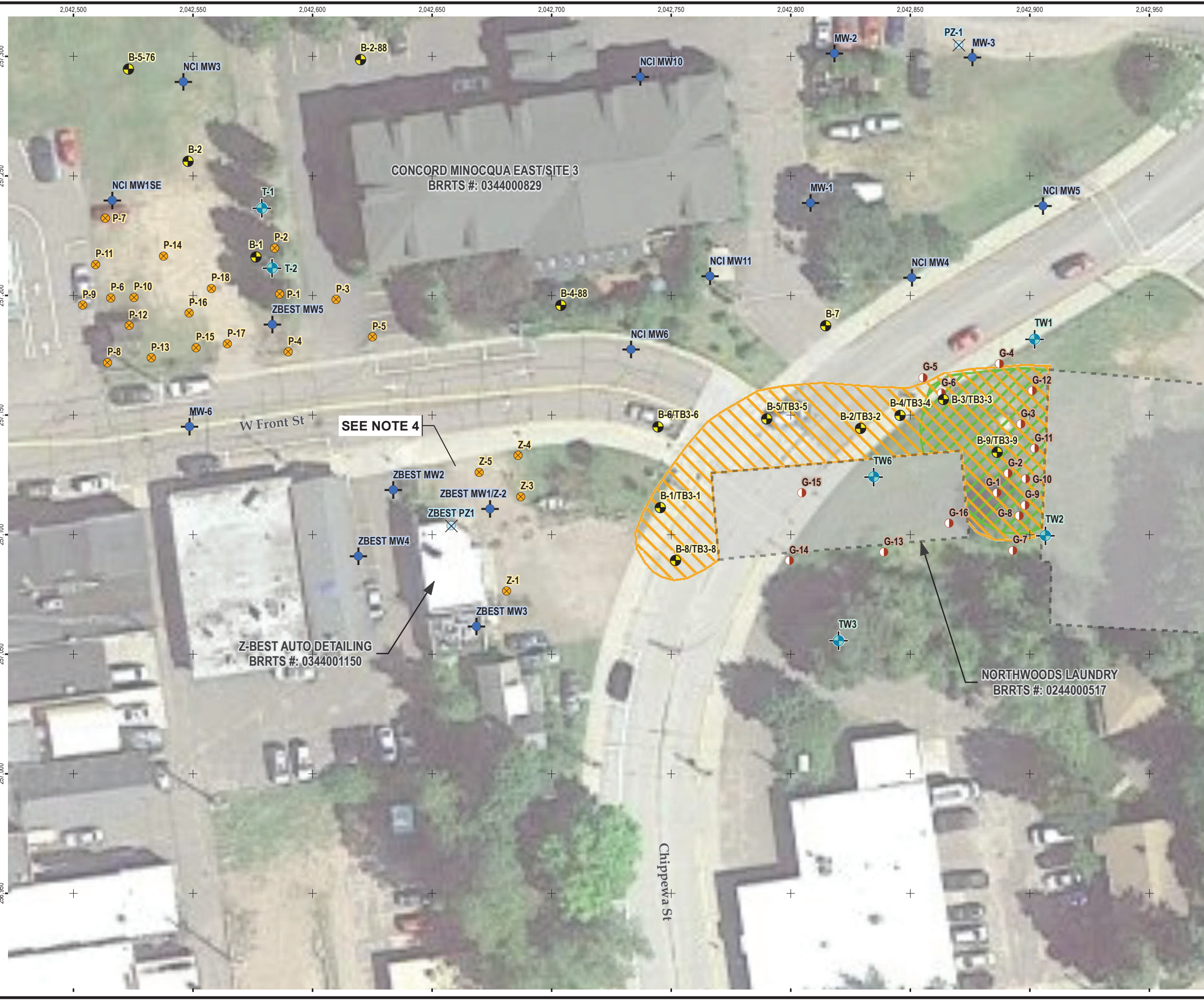
DRAWN BY: A. ADAIR	PROJ NO.: 298526
CHECKED BY: A. ENRIGHT	
APPROVED BY: T. O'CONNELL	<b>FIGURE B.1.B</b>
DATE: JANUARY 2019	

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FILE NO.: 298526-028\_B1B.mxd



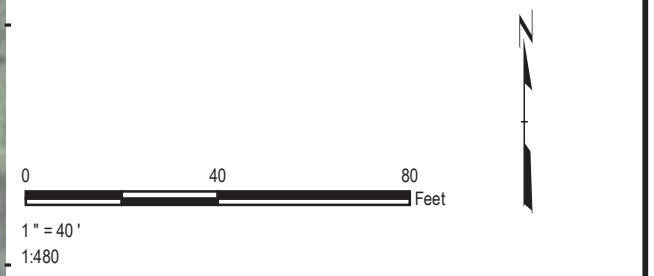
TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation:  
 Plot Date: 1/11/2019 13:46:20 PM by ADAIR -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WI\_DOT12016\_242567\242567-002.mxd



**LEGEND**

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE PIEZOMETER LOCATION
- APPROXIMATE TEMPORARY WELL LOCATION
- APPROXIMATE SOIL BORING LOCATION
- APPROXIMATE GEOPROBE LOCATION
- APPROXIMATE SOIL SAMPLE LOCATION
- NR 720 DIRECT CONTACT PATHWAY EXCEEDANCE FOR PCE
- NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE
- APPROXIMATE FORMER BUILDING EXTENT

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, (7/26/2015).
  2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
  3. ALL MAP FEATURE LOCATIONS ARE APPROXIMATE.
  4. SOIL SAMPLES AT DEPTH AT THE Z-BEST AUTO DETAILING BRRTS #03-44-001150 SITE, WHICH WERE COLLECTED ON APRIL 20 AND 24, 1995 BY ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC. ARE NOT CONSIDERED AS NR 720 GROUNDWATER PATHWAY EXCEEDANCES FOR CVOCS, AS THE RESULTS APPEAR TO BE DUE TO THE SMEAR ZONE ASSOCIATED WITH WATER TABLE IMPACTS.



PROJECT: **WISDOT ID# 0656-50-31, BRRTS# 02-44-000517  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **SOIL CONTAMINATION**

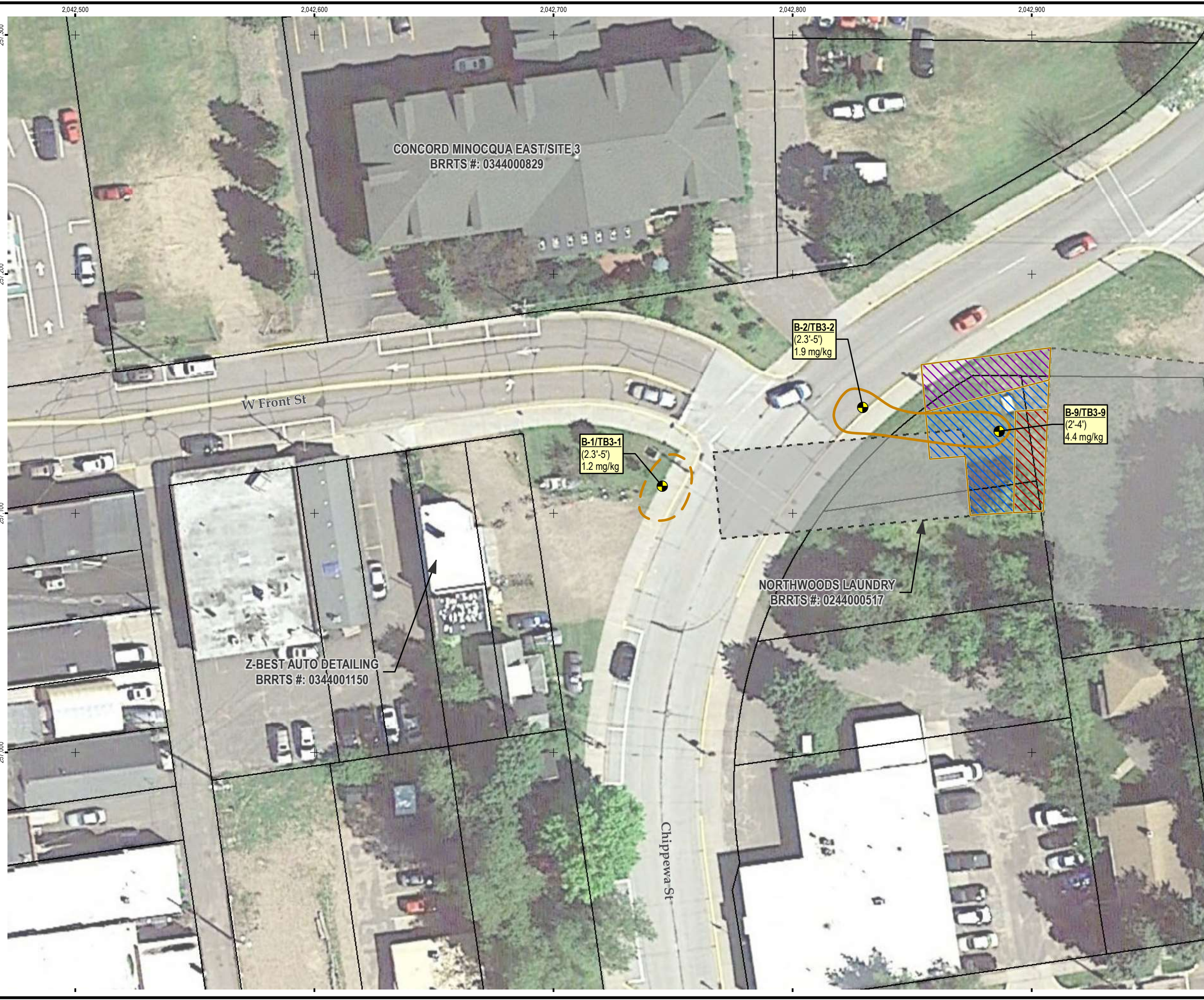
DRAWN BY: A. ADAIR	PROJ NO.: 298526
CHECKED BY: A. ENRIGHT	<b>FIGURE B.2.A</b>
APPROVED BY: T. O'CONNELL	
DATE: JANUARY 2019	

708 Heartland Trail, Suite 3000  
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 Phone: 608.826.3600  
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FILE NO.: 242567-002.mxd



TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin North FIPS 4801 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 12/21/2018, 09:03:35 AM by AADAIR -- LAYOUT: ANSI B(11"x17")  
 Path: E:\WJ\_DOT\2016\_242567\298526-015.mxd



**LEGEND**

- APPROXIMATE SOIL BORING LOCATION
- NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE (DASHED WHERE INFERRED)
- 2' DEPTH EXCAVATION
- 4' DEPTH EXCAVATION
- 5' DEPTH EXCAVATION
- APPROXIMATE FORMER BUILDING EXTENT
- TAX PARCEL

**SAMPLE ID**  
 (DEPTH IN FEET)  
 PCE CONCENTRATION (mg/kg)

**NOTES**

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JULY 2015.
2. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN- NORTH (US SURVEY FEET).
3. ALL MAP FEATURE LOCATIONS ARE APPROXIMATE.
4. SOIL DATA SHOWN WAS COLLECTED DURING AN INVESTIGATION COMPLETED IN 1994. ONLY SAMPLE RESULTS OUT OF THE LIMITS OF THE REMEDIAL EXCAVATIONS WITH NR 720 EXCEEDANCES ARE SHOWN. THE NOTED RESULTS ARE ESTIMATED BASED ON HISTORICAL SITE INFORMATION.
5. ACCORDING TO RMT'S REMEDIAL DOCUMENTATION REPORT (1996), SHALLOW PCE CONTAMINATED SOIL WAS REMEDIATED VIA OVER-EXCAVATION AND ASPHALT INCORPORATION IN CONJUNCTION WITH THE USH 51 RECONSTRUCTION PROJECT. SOIL DATA FROM BORING B-5/TB3-5 AND B-8/TB3-8 WAS NOT USED FOR DELINEATION OF THE NR 720 GROUNDWATER PATHWAY EXCEEDANCE FOR PCE EXTENTS.

0 40 80  
 Feet  
 1" = 40'  
 1:480

PROJECT: **WISDOT ID# 0656-50-31, BRRTS# 02-44-000517  
 FORMER NORTHWOODS LAUNDRY  
 MINOCQUA, ONEIDA COUNTY, WISCONSIN**

TITLE: **RESIDUAL SOIL CONTAMINATION**

DRAWN BY: A. ADAIR PROJ NO.: 298526  
 CHECKED BY: A. ENRIGHT  
 APPROVED BY: T. O'CONNELL  
 DATE: DECEMBER 2018

**FIGURE B.2.B**

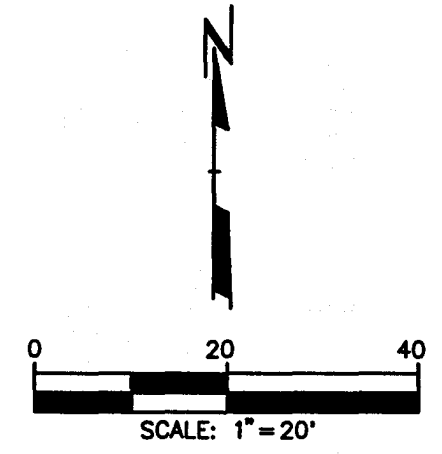
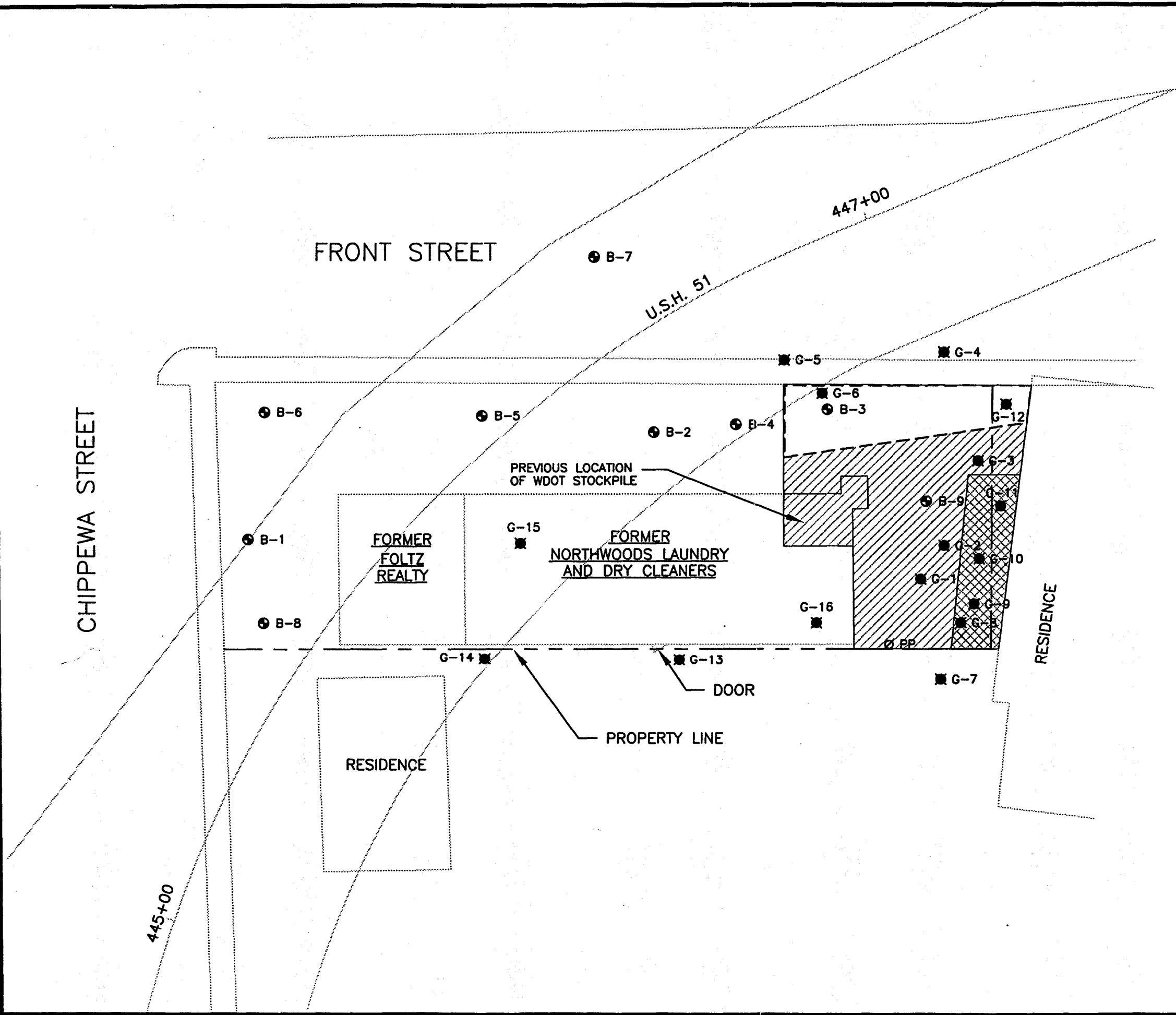
708 Heartland Trail, Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600  
 www.trcsolutions.com

FILE NO.: 298526-015.mxd



Dwg Size: 48049 Bytes  
 Plot Date: Thursday, August 15, 1996  
 Plot Time: 09:59:5586 AM  
 Attached Xref's: No xref's Attached.  
 Drawing Name: J:\10585\03\0302.DWG  
 Operator Name: MDD  
 Scale: 1"=20'

LEGEND	
■ G-3	GEOPROBE
● B-3	BORING
∅ PP	POWER POLE
.....	BUILDING LINE
-----	PROPERTY LINE
[Cross-hatched]	EXTENT OF 4 FOOT EXCAVATION
[Diagonal lines]	EXTENT OF 2 FOOT EXCAVATION
[Dashed box]	EXTENT OF 5 FOOT EXCAVATION BY THE WISDOT



**FINAL EXCAVATION MAP**  
**WISDOT FORMER NORTHWOODS LAUNDRY PROPERTY**  
 MINOCQUA, WISCONSIN  
 WISDOT ID: 1175-05-22

	DWN. BY: MDD
	APPROVED BY: <i>FDK</i>
	DATE: SEPTEMBER 1996
	PROJ. # 10585.03
FILE # 0302.DWG	

FIGURE 3