



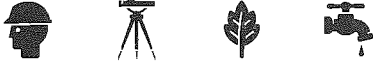
March 7, 2017

Wisconsin Department of Natural Resources

Attn: Tom Hvizdak

473 Griffith Avenue

Wisconsin Rapids, WI 54494



RECEIVED
WI Dept of Natural Resources
MAR 10 2017
Wisconsin Rapids Service Center
Wisconsin Rapids, WI

Subject:

Additional Piezometer Installation Work Plan
Former Normington Cleaners
821 Chestnut Street, Wisconsin Rapids, WI 54494
BRRTS#02-72-257528

Dear Tom:

This letter and attached information is in response to your correspondence dated February 21, 2017 and will serve as a work plan for additional investigation at the above referenced site. The site location is shown on Figure 1.

The most recent correspondence, dated May 25, 2016, summarized the results of additional downgradient piezometer installation, as well as replacement of formerly abandoned piezometer CPZ4 (CPZ4r) and monitoring well MW2 (MW2r). Based on the results of additional piezometer installation and sampling, REI recommended the installation of three (3) additional piezometers at the leading edge of the Chlorinated Volatile Organic Compounds (CVOC) groundwater plume.

The proposed piezometer locations are shown on Figure 2. The additional piezometers will be placed at the top of the granite bedrock surface, a depth of approximately thirty-five (35) feet and constructed with a five (5) foot screen. A cross-section of the site conditions, including the Witter Field irrigation wells is shown on Figure 3. Well construction reports for the east and west Witter Field wells are attached.

Following installation and development of the additional piezometers, REI will conduct a round of groundwater samples from the entire monitoring well/piezometer network. The new piezometers will be surveyed into the existing site datum. Samples will be collected using a low-flow peristaltic pump. Analysis will include laboratory analysis for Volatile Organic Compounds, and field measurements through a flow cell for temperature, conductivity, dissolved oxygen, pH, and redox potential. A summary report will be submitted upon receipt of the sample results.



RESPONSIVE. EFFICIENT. INNOVATIVE.

4080 N. 20th Avenue Wausau, WI 54401

715-675-9784 REIengineering.com

p:\1900-1999\1933b-pioneer bank - normington cleaners\reports\work plan\1933bual4.docx

Wisconsin Department of Natural Resources
Attn: Tom Hvizdak
March 7, 2017

The additional piezometers will be placed on City of Wisconsin Rapids right-of-way and will require a permit which typically takes at least 30 days to approve. The estimated schedule for additional investigation is as follows:

Approval of right of way permit	May 2017
Drilling of additional piezometers	June 2017
Development, survey, sampling	July 2017
Summary Report	August 2017

Thank you for your assistance with this project, please contact me to discuss additional piezometer placement or the results of additional investigation at (715) 675-9784 or adelforge@reiengineering.com.

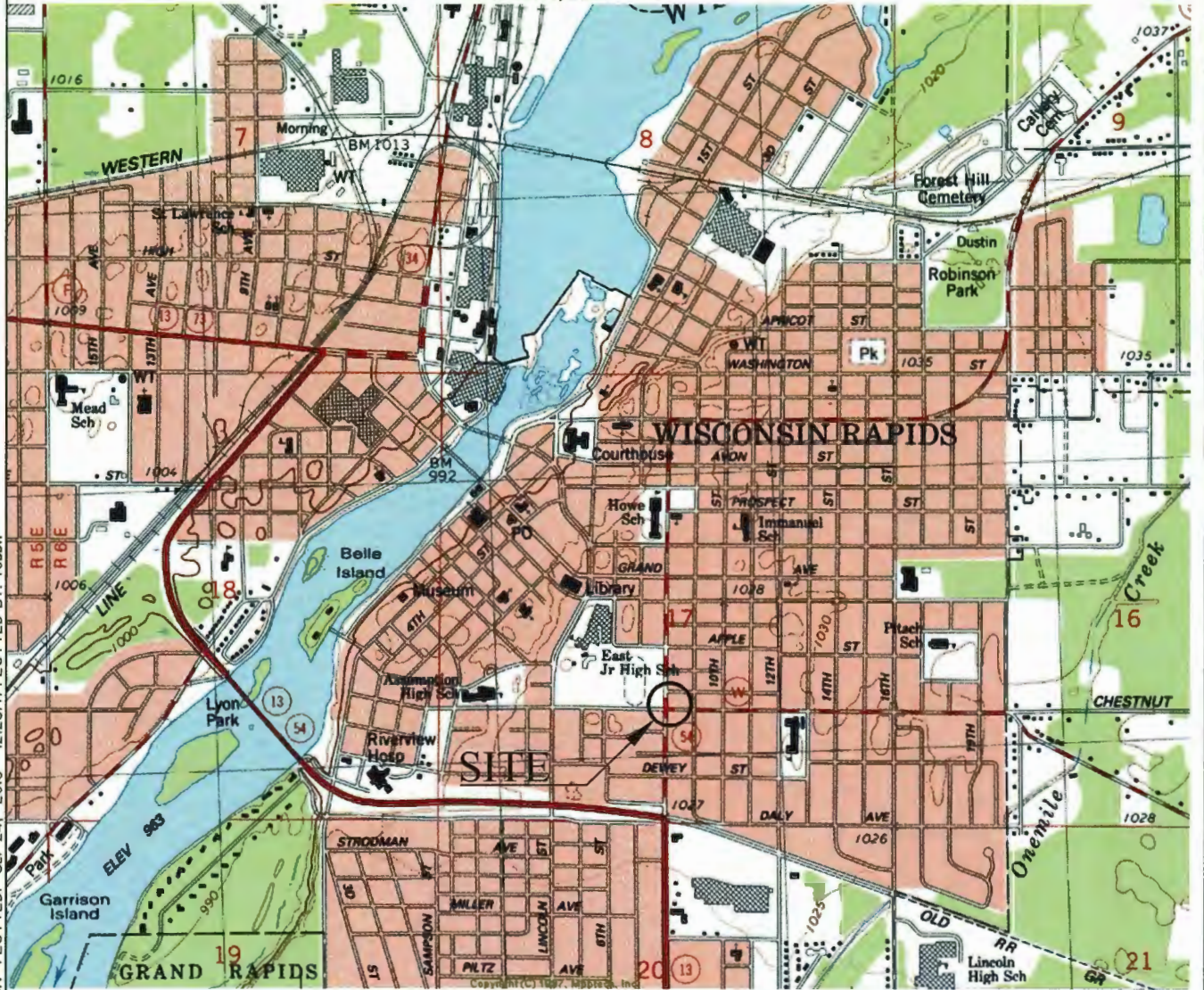
Sincerely,
REI Engineering, Inc.



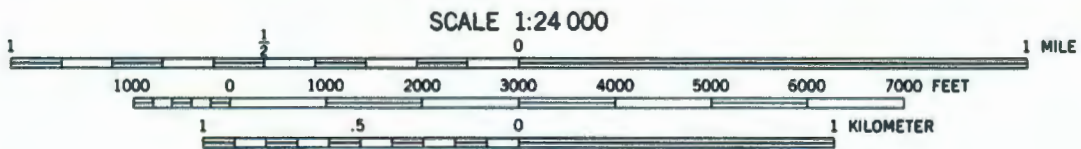
Andrew R. Delforge, P.G.
Hydrogeologist/Project Manager

cc: Pioneer Bank, Attn: Mr. Jeffrey Whitrock, 5758 Main Street, P.O. Box 220, Auburndale, WI 54412

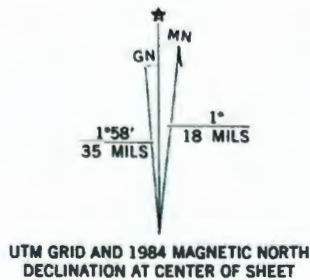
R&R Transmission Specialists, LLC, Attn: Mr. Ray Rogus, 731 8th Street South, Wisconsin Rapids, WI 54494



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CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



WISCONSIN RAPIDS NORTH, WIS.
 NE/4 WISCONSIN RAPIDS 15' QUADRANGLE
 44089-D7-TF-024

1984

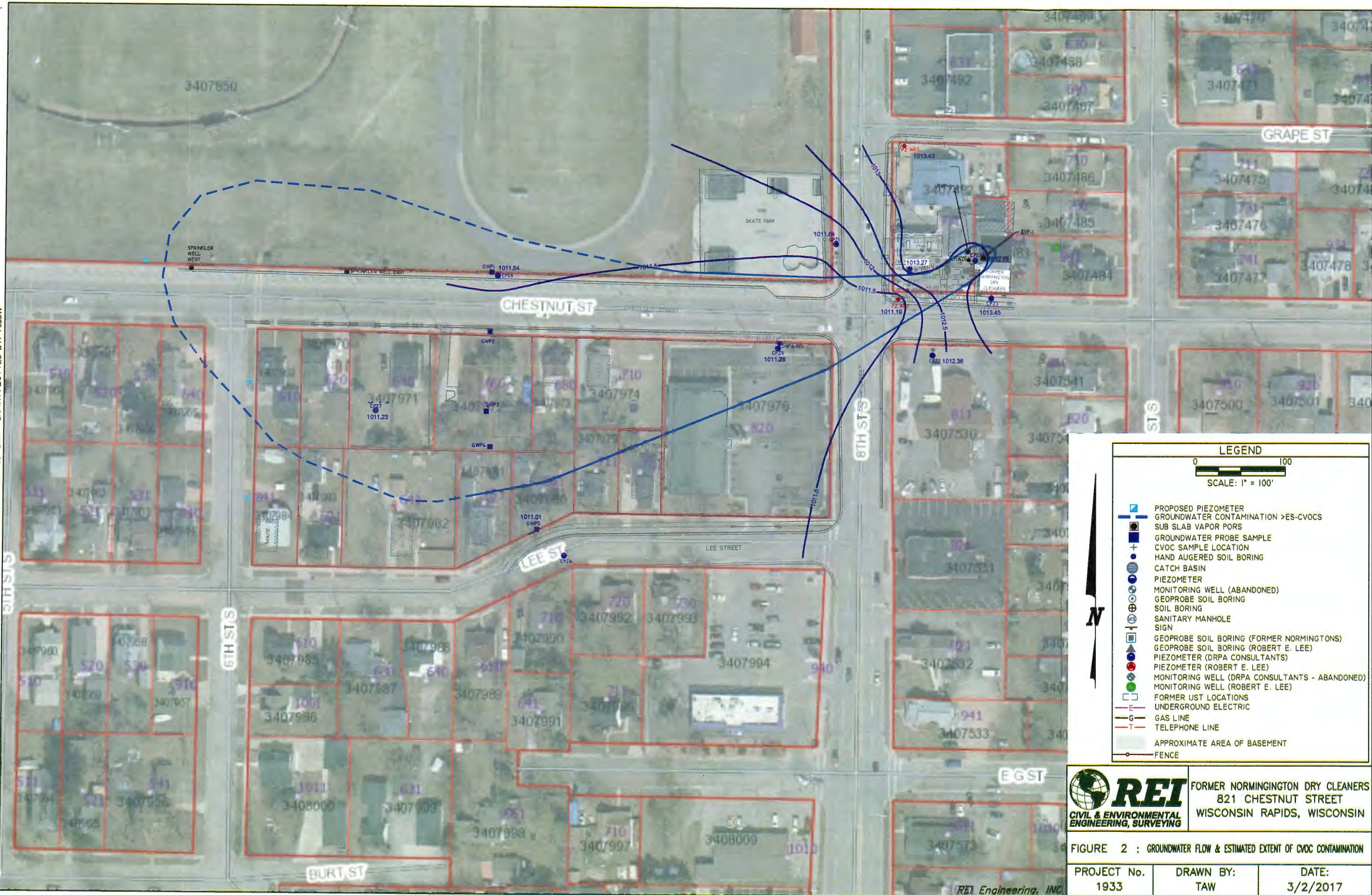
REI Engineering, INC.

FORMER NORMINGTON DRY CLEANERS
 821 CHESTNUT STREET
 WISCONSIN RAPIDS, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
1933	TAW	9/23/2013

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LEGEND

0 100
SCALE: 1" = 100'

- PROPOSED PIEZOMETER
- GROUNDWATER CONTAMINATION >ES-CVOCs
- SUB SLAB VAPOR PROBS
- GROUNDWATER PROBE SAMPLE
- CVOC SAMPLE LOCATION
- HAND AUGERED SOIL BORING
- CATCH BASIN
- PIEZOMETER
- MONITORING WELL (ABANDONED)
- GEOPROBE SOIL BORING
- SOIL BORING
- SANITARY MANHOLE
- SIGN
- GEOPROBE SOIL BORING (FORMER NORMINGTONS)
- GEOPROBE SOIL BORING (ROBERT E. LEE)
- PIEZOMETER (DRPA CONSULTANTS)
- PIEZOMETER (ROBERT E. LEE)
- MONITORING WELL (DRPA CONSULTANTS - ABANDONED)
- MONITORING WELL (ROBERT E. LEE)
- FORMER UST LOCATIONS
- UNDERGROUND ELECTRIC
- GAS LINE
- TELEPHONE LINE
- APPROXIMATE AREA OF BASEMENT
- FENCE

REI FORMER NORMINGTON DRY CLEANERS
821 CHESTNUT STREET
WISCONSIN RAPIDS, WISCONSIN

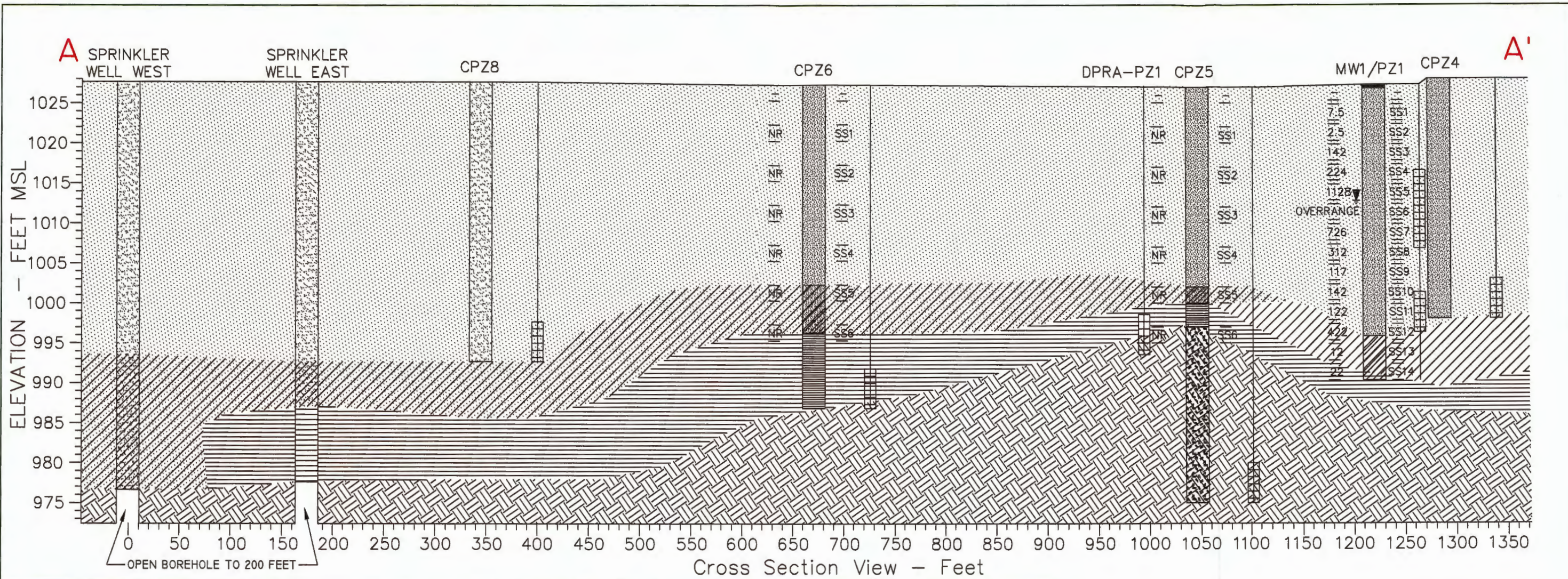
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FIGURE 2 : GROUNDWATER FLOW & ESTIMATED EXTENT OF CVOC CONTAMINATION

PROJECT No. 1933	DRAWN BY: TAW	DATE: 3/2/2017
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REI Engineering, INC

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- (CO)-CONCRETE
- ▨ (CL)-INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ▩ (SP)-POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES (UNIFORM GRAIN SIZE)
- ▧ (SC)-CLAYEY SANDS, SAND-SILT MIXTURES
- ▨ (SH/SL)-SHALE/SLATE
- ▩ (BR)-BEDROCK

0 150
SCALE: 1" = 150'

REI
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FORMER NORMINGTON DRY CLEANERS
821 CHESTNUT STREET
WISCONSIN RAPIDS, WISCONSIN

FIGURE 3 : CROSS SECTION A-A'

PROJECT No. 1933	DRAWN BY: TAW	DATE: 3/2/2017
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REI Engineering, INC.

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER CV062

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707

Form 3300-77A
 (R 8/00)

Property Owner **WIS RAPIDS PUBLIC SCHOOLS** Telephone **715-423-1720**
 Number

Mailing Address **510 PEACH**

City **WISCONSIN RAPIDS** State **WI** Zip Code **54494**

County of Well Location **Wood** County Well Permit No. **W** Well Completion Date **05/18/1989**

Well Constructor (Business Name) **HAUPT WELL @ PUMP CO INC** License # **529** Facility ID Number (Public Wells)

Address **HWY 10 1332 E PT ROA** Public Well Plan Approval #
 W--

City **AUBURNDALE** State **WI** Zip Code **54412** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **4.9** gpm/ft

3. Well serves **1** # of homes and or **SPRINKLING** High capacity Well? Yes No
 (e.g. barn, restaurant, church, school, industry, etc.) Property? Yes No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

1. Landfill
2. Building Overhang
3. Septic Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain
 Cast Iron or Plastic Other
14. Building Sewer: Gravity Pressure
 Cast Iron or Plastic Other
15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm <= 6 > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			Lower
Dia. (in.)	From (ft.)	To (ft.)	Open Bedrock
6	0	200	
Enlarged Drillhole			
<input type="checkbox"/> ---1. Rotary - Mud Circulation-----			<input type="checkbox"/>
<input checked="" type="checkbox"/> ---2. Rotary - Air-----			<input type="checkbox"/>
<input type="checkbox"/> ---3. Rotary - Air and Foam-----			<input type="checkbox"/>
<input type="checkbox"/> ---4. Drill-Through Casing Hammer			
<input type="checkbox"/> ---5. Reverse Rotary			
<input type="checkbox"/> ---6. Cable-tool Bit in. dia-----			<input type="checkbox"/>
<input type="checkbox"/> 7. Dual Rotary			<input type="checkbox"/>
<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)			
Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If no, why not?			

8. Geology		From (ft.)	To (ft.)
Type	Caving/Noncaving, Color, Hardness, etc		
--S-	SAND	0	35
-QCH	SHALEY CAVING CLAY	35	49
--Q-	GRANITE	49	200

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 STEEL - 18.97# A53 SAWHILL P.E WELDED	0	50.3

9. Static Water Level	ft. above ground surface	11. Well is:
	18 ft. below ground surface	<input checked="" type="checkbox"/> Above Grade
		<input type="checkbox"/> Below Grade
10. Pump Test	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Level 34 ft. below surface	Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping at 78 GPM for 20 hours	Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method:			
Kind of Sealing Material			

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **DH** Date signed **06/14/1989**
 Signature of Drill Rig Operator (Mandatory unless same as above) **DH** Date signed **06/14/1989**

Department of Natural Resources

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 133

Driller Notes

Other DRILLER REPORTS THIS IS EAST WELL ON WITTEN FIELD.

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER CV063

Property **WIS RAPIDS PUBLIC SCHOOLS** Telephone **715-425-1720**
 Owner Number

Mailing **510 PEACH**
 Address

City **WISCONSIN RAPIDS** State **WI** Zip Code **54494**

County of Well Location **Wood** County Well Permit No. **W** Well Completion Date **05/19/1989**

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

Form 3300-77A
(R 8/00)

Well Constructor (Business Name) **HAUPT WELL @ PUMP CO INC** License # **529** Facility ID Number (Public Wells)

Address **HWY 10 1332 E PT ROA** Public Well Plan Approval #

City **AUBURNDALE** State **WI** Zip Code **54412** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **3.5** gpm/ft

1. Well Location
 Town City Village
 of **WISCONSIN RAPIDS**
 Grid or Street Address or Road Name and Number

Subdivision Name **WITTER FIELD** Lot # Block #

Gov't Lot # or **NE 1/4** of **SW 1/4** of
 Section **17** T **22** N; R **6** E W
 Latitude Deg. Min. Longitude Deg. Min.

2. Well Type New Replacement Reconstruction
 of previous unique well # constructed in
 Reason for replaced or Reconstructed Well?
SPRINKLE WITTENFIELD

Drilled Driven Point Jetted Other:

3. Well serves **1** # of homes and or **SPRINKLING** High capacity Well? Yes No
 (e.g. barn, restaurant, church, school, industry, etc.) Property? Yes No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline Swimming Pool

- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain
 Cast Iron or Plastic Other
- Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
- Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			Lower Open Bedrock	
Dia (in.)	From (ft.)	To (ft.)	Enlarged Drillhole	depth (ft)
6	0	200	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
			<input checked="" type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	
			<input type="checkbox"/> --5. Reverse Rotary	
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
			If no, why not?	

8. Geology		From (ft.)	To (ft.)
Type	Cavine/Noncavine, Color, Hardness, etc		
--S-	SAND	0	34
--C-	CLAY	34	50
--Q-	GRANITE	50	200

6. Casing, Liner, Screen		Material, Weight, Specification	From (ft.)	To (ft.)
Dia (in.)				
		6 STEEL-18.97 A53-SAWHILL P.E. WELDED	0	51.2
Dia. (in.)	Screen type, material & slot size			

9. Static Water Level
 ft. above ground surface
18 ft. below ground surface

11. Well is: Above Grade
 Below Grade
24 in. Below Grade

10. Pump Test
 Pumping Level **40** ft. below surface
 Pumping at **76** GPM for **2** hours

Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method			
Method:	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **DAH** Date signed **06/14/1989**
 Signature of Drill Rig Operator (Mandatory unless same as above) **DOH** Date signed **06/14/1989**

Department of Natural Resources

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SID Number

Common Well Name

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