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PREPARED BY  
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N16W23390 Stone Ridge Drive, Suite G  
Waukesha, WI 53188



January 18, 2022

Jeff Ackerman  
Remediation & Redevelopment Program  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Rd  
Fitchburg, WI 53711

**Re: Remediation Site Operation, Maintenance, Monitoring and Optimization  
Report  
Former Robinson's Cleaners  
1036 4<sup>th</sup> Street, Beloit, Wisconsin  
BRRTS# 02-54-515602**

Dear Mr. Ackerman:

EnviroForensics LLC (EnviroForensics) is pleased to provide this Remediation Site Operation, Maintenance, Monitoring and Optimization Report for the former Robinson's Cleaners facility located at 1036 4<sup>th</sup> Street in Beloit, Wisconsin (the Site). This report is being submitted in place of Department Form 4400-194. The purpose of this report is to present operation, maintenance, and monitoring (OM&M) data related to a soil vapor extraction (SVE) system installed and intermittently operated at the Site, along with recent groundwater monitoring data. This report covers the time period of July 1 – December 31, 2021.

### **Remediation Progress**

The SVE system consists of a vacuum blower connected to five (5) extraction wells screened in unconsolidated soil from 3-6 feet below ground surface (bgs). The blower and associated equipment and controls are housed inside a trailer-mounted, climate-controlled enclosure positioned along the west wall of the Site building. The extraction well locations and conveyance line paths are depicted on **Figure 1**. The extraction wells are connected to the SVE blower and associated equipment with individual conveyance lines that manifold just outside the system enclosure. Routine OM&M activities are described in the *Operation, Maintenance, and Monitoring Plan* dated October 31, 2019.

SVE system operational data is summarized in **Table 1**. During the current reporting period, the system was operated for 93 days, from July 28 through October 29, at which time it was intentionally shut down due to low contaminant removal rates. The objective of operation during this period was to capture contaminated vapor from the lower part of the extraction interval (i.e., approximately 5-6 feet bgs) which had been saturated since start up. Dry conditions during summer 2021 resulted in a deeper water table and the potential to extract contaminated vapor from that lower interval.

The chlorinated volatile organic compound (CVOC) concentration in the system effluent is monitored by collecting samples in 1-liter vacuum canisters from a port in the discharge stack at a rate of 200 ml/minute. The samples are analyzed for tetrachloroethene (PCE) and its degradation compounds according to EPA Test Method TO-15. The effluent CVOC concentration trend is depicted in **Chart 1**. CVOCs were not detected in the final sample collected before shut down on October 29, 2021. The concentration in that sample is assumed to be just below the PCE laboratory reporting limit of 31.9  $\mu\text{g}/\text{m}^3$ .

CVOC mass removal is calculated using the flow rate, system run time, and concentrations detected in samples of the system effluent. Time versus cumulative mass removal is illustrated in **Chart 2**. The estimated total mass removed through October 29, 2021 is 0.58 pounds. In total, the system has operated for 7,026.7 hours, or approximately 293 days, resulting in an average contaminant removal rate of 0.002 pounds per day.

More than 175,000 gallons of condensate and groundwater has been pumped through the SVE system and discharged to the storm sewer in 4<sup>th</sup> Street under a WPDES permit. As required, the discharged water is sampled monthly for analysis of pH, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and oil and grease. The average PCE concentration detected in the water samples during the reporting period was 3.4 micrograms per liter ( $\mu\text{g}/\text{L}$ ). No other CVOCs were detected in the discharge water samples.

## Groundwater Monitoring Results

A water table contour map for October 19, 2021 is presented on **Figure 2**. The indicated groundwater flow direction is generally south, which is consistent with prior monitoring events.

Comprehensive monitoring well sample analytical results are summarized and compared to WDNR standards in **Table 2**, and charts showing contaminant concentration trends in groundwater are presented in **Attachment 1**. Decreasing concentration trends are observed at MW-1, MW-8, MW-10, MW-14, and MW-15. Contaminant concentrations at other monitoring well locations within the PCE plume are stable. The following results are notable and suggest the plume is contracting:

- At MW-14, located just north of Merrill Avenue, the PCE concentration has steadily decreased over the past 15 years and PCE has not been detected for three (3) consecutive monitoring events.
- The PCE concentration at MW-21, which previously defined the downgradient edge of the plume, has been less than the enforcement standard for three (3) consecutive monitoring events.

Monitoring well sample results for the two (2) most recent sampling events are shown on **Figure 3** along with an updated extent of the PCE plume considering the most recent monitoring data.

## Conclusions

The SVE system has delivered a low mass removal rate relative to operational costs. EnviroForensics does not believe there would be a demonstrable benefit to resuming operation and recommends decommissioning. As shown on **Figure 4** and summarized in **Table 3**, sub-slab vapor concentrations were above vapor risk screening levels during the most recent assessment in January 2020. Vapor concentrations will be re-evaluated in early 2022; however, it is assumed that SVE did not completely address the vapor intrusion risk for the Site building. If that is the case, EnviroForensics will request permission to install a vapor mitigation system.

The groundwater contaminant plume appears to be contracting from the downgradient boundary. Groundwater monitoring will be conducted periodically for purposes of documenting concentration trends and plume dynamics.

If you have questions regarding the content of this report, please feel free to contact me at 262-745-5054 or [bkappen@enviroforensics.com](mailto:bkappen@enviroforensics.com).

Sincerely,  
**EnviroForensics LLC**

A handwritten signature in blue ink, appearing to read "Brian Kappen".

Brian Kappen, PG  
*Project Manager*

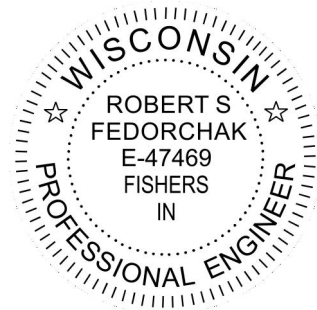
## Attachments

## CERTIFICATIONS


I, Robert Fedorchak, 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 document has been prepared 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 document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



\_\_\_\_\_  
Senior Engineer, Lic. No.  
Signature, title and P.E. number



I, Brian Kappen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

  
\_\_\_\_\_  
Project Manager  
Signature and title

01/18/2022  
Date



## TABLES

**Table 1**  
**Soil Vapor Extraction System Operational Data**  
Former Robinson's Cleaners  
1036 4th Street, Beloit, Wisconsin

Date	Time	System Runtime	Vacuum				Flow Rate	Influent Air Temp	Exhaust Temp	Sample Total CVOC *	Flow Meter	Volume Discharged
			in Hg									
			Hours	System	SVE-1/3	SVE-2						
9/4/2019	1140	4,186.1	-5.0	-4.5	-5.5	-5.5	3,550	73	115	2,710	NM	100
9/11/2019	1130	4,188.1	-5.0	-4.5	-5.5	-5.5	NM	NM	NM	NM	0	100
9/12/2019	1320	4,212.6	-6.0	-5.2	-5.7	-5.5	3,650	74	129	1,900	1,230	1,230
9/13/2019	1205	4,236.6	-6.0	-5.3	-5.7	-5.5	3,790	78	131	1,350	2,145	915
9/19/2019	1520	4,370.0	-4.8	-4.2	-4.7	-4.2	3,615	74	114	228	3,182	1,037
9/26/2019	1330	4,461.4	0.0	0.0	0.0	0.0	NM	NM	NM	NM	6,610	3,428
10/29/2019	945	4,799.6	-6.2	-5.4	0.0	-5.6	3,440	53	102	30	23,838	17,228
11/19/2019	825	5,303.3	-6.6	-5.0	-0.5	0.0	3,250	52	102	132	64,242	40,404
12/18/2019	930	6,012.8	-7.0	0.0	0.0	-7.4	2,450	42	86	30	64,242	0
12/27/2019	1055	6,013.8	0.0	0.0	0.0	0.0	0	NM	NM	NM	64,343	101
12/2/2020	1305	6,013.8	-6.0	-5.3	-5.7	0.0	NM	NM	NM	NM	64,343	0
12/31/2020	805	6,558.4	0.0	0.0	0.0	0.0	NM	NM	NM	NM	75,757	11,414
3/29/2021	1312	7,040.1	-6.7	-5.8	-6.0	-6.2	3,367	49	122	269	88,282	12,525
4/29/2021	1434	7,784.5	-6.5	-5.5	-6.0	-6.0	3,450	71	136	131	126,565	38,283
5/28/2021	1105	8,477.0	-6.0	-5.7	-6.0	-6.0	4,989	61	117	30	150,505	23,940
6/28/2021	926	9,219.4	-6.5	-5.0	-5.5	-5.5	4,642	71	125	328	162,424	11,919
8/30/2021	1107	10,009.1	-6.0	-5.0	-5.5	-5.5	3,821	81	139	288	165,555	3,131
9/29/2021	815	10,726.1	-6.3	-5.4	-5.8	-6.0	3,130	64	114	43	168,888	3,333
10/29/2021	1120	11,448.4	-6.5	-5.8	-6.2	-6.2	3,900	61	115	30	175,656	6,768

**Notes:**

1. Influent and exhaust temp measured with thermo-anemometer
2. Flow rate measured with thermo-anemometer. Pitot tube/ magnehelic gauge reading unreliable
3. Differential pressure gauges on conveyance lines not functional due to water in tubing
4. Digital water flow meter installed 9/11/2019

µg/m<sup>3</sup> = micrograms per cubic meter

CVOC = Chlorinated Volatile Organic Compound

fpm = feet per minute

NM = Not Measured

\* = 30 µg/m<sup>3</sup> assumed for non-detect result. Detection limit for PCE = 31.9 µg/m<sup>3</sup>

**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**  
Former Robinson's Cleaners  
1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes	
		Chlorinated VOCs						Petroleum VOCs										
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000	
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000	
MW-1	7/1/04	180	<5	<5	ND	ND	<5	PNR	PNR	<5	PNR	PNR	PNR	PNR	<5	PNR	<5	
	9/1/04	350	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	12/1/04	320	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	1/1/05	76	0.56	<1.0	ND	ND	<4.0	<0.40	<0.50	<1.0	<0.40	<0.40	<0.50	<1.0	0.52	<0.80	<1.0	
	3/1/05	240	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	6/1/05	180	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	8/1/06	260	1.3	<2.1	ND	ND	<1.0	<2.3	<2.2	<1.4	<1.5	<1.7	<1.8	<2.0	<1.7	<4.5	<6.6	
	11/1/06	290	1.6	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.8	<2.83	
	4/1/08	117	0.63	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	PNR	<1.8	
	7/1/11	231	1.5	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.89	<0.81	<0.67	<0.97	<1.8	
	3/6/12	180	0.69	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.89	<0.81	<0.67	<0.97	<1.8	
	6/7/12	140	0.54	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.59	<0.068	
	9/1/12	95.3	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	12/12/12	100	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068	
	3/20/13	83	0.43 J	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068	
	6/19/13	110	1.2	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068	
	9/18/13	210	1.4	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068	
	12/18/13	92	<3.3	<3.8	<3.5	<1.8	<2.4	<3.5	<3.3	<5.5	<3	<3.1	<17	<2.5	<6.9	<22	<6.9	
	3/4/14	132	0.79 J	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.30	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	6/25/14	114	0.78 J	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.30	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
9/25/14	168	1.06	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.30	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69		
12/1/14	110	0.79 J	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.30	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69		
9/19/16	150	1.07 J	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1		
2/7/20	72	0.3 J	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	0.56 J		
4/28/21	60	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21		
10/19/21	61	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21		
MW-3	7/1/04	<5	<5	<5	ND	ND	<5	PNR	PNR	<5	PNR	PNR	PNR	PNR	<5	PNR	<5	
	9/1/04	<10	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	12/1/04	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	1/1/05	1.7	0.56	<1.0	ND	ND	<2.0	<0.20	7.4	<5.0	1.6	2.1	0.38	11	1.1	1.12	<0.50	
	3/1/05	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	6/1/05	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	8/1/06	0.92	1.3	<2.1	ND	ND	<0.41	<0.93	3	<0.54	<0.59	<0.67	<0.74	4	<0.67	<1.8	<2.63	
	11/1/06	0.9	1.6	<0.83	ND	ND	<0.41	<0.93	3.4	<0.54	<0.59	<0.67	<0.74	1.5	<0.67	<1.8	<2.63	
4/1/08	Well Destroyed																	

**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**

Former Robinson's Cleaners  
 1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes	
		Chlorinated VOCs						Petroleum VOCs										
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000	
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000	
MW-4	7/1/04	<50	<5	<5	ND	ND	<50	PNR	PNR	740	PNR	PNR	PNR	PNR	95	PNR	1,990	
	9/1/04	<100	<10	<10	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	12/1/04	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	1/1/05	<2.5	<0.20	<0.50	ND	ND	2.0	8.9	4.6	180	15	1.5	48	47	13	64	220	
	3/1/05	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	6/1/05	<5	<5	<5	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	8/1/06	1.5	<0.48	<0.83	ND	ND	3.9	13	<2.2	400	26	<1.7	140	92	26	90	391	
	11/1/06	<2.2	<0.48	<0.83	ND	ND	2.7	6.3	<4.4	300	20	<3.4	85	64	18	28	255	
	4/1/08	<1.1	<1.2	4.9	ND	ND	1.4	13.9	5.6	433	34.1	PNR	122	95	42	<27.2	552	
	7/1/11	3.7	<2.4	9.8	<4.4	<0.9	<2.0	10.1	<4.4	432	20.4	<3.4	139	81.6	39.6	31.2	79.9	
	3/6/12	1.7 J	0.47 J	11	< 4.4	< 0.9	1.0 J	15	6.3	480	33	1.5 J	170	120	34	6.7	450	
	6/7/12	<0.85	<0.95	11	<1.3	<0.50	<0.37	<0.65	5	420	27	<0.85	220	92	28	3.1J	370	
	12/12/12	0.96 J	<0.19	8.7	<0.25	<0.10	0.53	9.2	3.9	250	20	<0.17	120	66	11	3.9	140	
	3/19/13	1.0 J	<0.19	9.6	<0.25	<0.10	<0.074	13	5.3	200	25	1.4 J	74	94	9.5	1.3 J	140	
	6/19/13	1.4	0.85	9.9	<0.25	<0.10	0.51	11	4.7	280	23	1.3	120	78	20	4.05 J	220	
	9/18/13	2.4	0.95	10	<0.25	<0.10	<0.074	8.7	4.3	190	20	1.1	89	66	9.4	<0.18	100	
	12/18/13	<3.3	<3.3	12.2	<3.5	<1.8	<2.4	8.5 J	<3.3	287	19	<3.1	96	56	13.5 J	<22	190	
	3/4/14	1.16	0.85 J	7.2	<0.35	<0.18	<0.24	10.8	4.7	226	22.6	1.14	104	79	2.53 J	13.9	203.4	
	6/25/14	<3.3	<3.3	7.8	<0.35	<0.18	<0.24	8.1 J	4.1 J	283	20.4	<3.1	104	71	17.7 J	<22	192.1	
	9/25/14	2.2 J	<1.65	11.8	<1.75	<0.9	<1.2	10.9	5.1	370	27.1	<1.55	112	84	17.2	<18	203.6	
12/1/14	<1.65	<1.65	8.8	<1.75	<0.9	<1.2	4.2 J	1.8 J	133	11.4	<1.55	29.4	37	6.7 J	<11	69		
9/20/16	1.38 J	0.84 J	7.7	<0.54	<0.17	<0.44	12.3	5.2	255	27.1	<1.1	99	92	7.1	<3.1	156		
2/6/20	1.46 J	<0.6	11.4	<0.68	<0.4	<0.44	15.5	6.0	350	30.7	2.12	104	103	11.8	2.46 J	191.8		
4/29/21	<5.4	<4.7	9.3 J	<6	<1.7	<3.8	15.2 J	6.5 J	264	29.1	<4.3	78	112	7.9 J	<7.3	160		
10/22/21	<5.4	<4.7	8.7 J	<6	<1.7	<3.8	6.3 J	3.6 J	51	13.1	<4.3	46 J	51	<4.2	13 J	22.3 J		
MW-5/5R	7/1/04	<100	<100	<100	ND	ND	<100	PNR	PNR	930	PNR	PNR	PNR	PNR	620	PNR	4,600	
	9/1/04	<500	<500	<500	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	12/1/04	<50	<50	55	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	1/1/05	<10	<4.0	30	ND	ND	<4.0	<4.0	18	36	41	8.4	33	180	<4.0	940	90	
	3/1/05	<50	<50	<50	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	6/1/05	<50	<50	<50	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	
	8/1/06	<2.2	<2.4	29	ND	ND	<2.0	<4.6	<4.4	28	31	16	36	170	<3.4	850	44	
	11/1/06	1.2	<1.2	18	ND	ND	<1.0	<2.3	<2.2	4.8	11	9.6	11	40	<1.7	260	12	
4/1/08	Well Destroyed																	



**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**  
Former Robinson's Cleaners  
1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
		Chlorinated VOCs						Petroleum VOCs									
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000
MW-8	7/1/04	34	44	95	ND	ND	<5.0	PNR	PNR	<5.0	PNR	PNR	PNR	PNR	<5.0	PNR	<5.0
	9/1/04	15	31	200	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	12/1/04	9.1	16	170	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	1/1/05	5.3	6.5	95	ND	ND	<0.40	1.5	1.4	<1.0	0.5	<0.40	<0.50	<1.0	0.44	<0.80	<1.0
	3/1/05	94	15	19	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	6/1/05	23	31	130	ND	ND	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR	PNR
	8/1/06	3.0	32	130	ND	ND	<0.41	3.5	<0.89	0.67	0.99	<0.67	<0.74	0.95	<0.67	<1.80	<2.63
	11/1/06	17	14	110	ND	ND	<0.41	1.3	1.2	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	4.9	10.5	65.6	ND	ND	<0.41	2.0	1.9	<0.54	0.65	PNR	<0.74	<0.81	<0.67	<0.97	<1.8
	7/1/11	21.3	2.2	20.8	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.59	<0.89	<0.81	<0.67	<0.97	<0.83
	3/6/12	26	1.6 J	1.5 J	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.59	2.0 J	<0.81	<0.67	<0.97	<0.83
	6/7/12	19	1.1	8.4	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	<5	<5	77.4	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	0.97 J	<0.19	79	1.4	<0.10	<0.074	<0.13	2.8	0.31 J	0.72 J	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/19/13	21	4.1	26	0.15 J	<0.10	<0.074	0.60 J	0.88 J	<0.13	<0.14	<0.17	<0.16	<0.13	<0.32	<0.14	<0.068
	6/19/13	18	1.1	1.0	<0.11	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	9/19/13	5.9	2.3	69	1.9	<0.10	<0.074	<0.13	1.9	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.15	<0.068
	12/17/13	6.3	1.1	45	0.91 J	0.33 J	<0.24	0.67 J	0.79 J	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14 **	7.0	2.47	41	0.89 J	0.20 J	<0.24	1.43	1.78	<0.55	0.44 J	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	9.5	1.08	18.2	0.38 J	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	14.5	0.62 J	38	0.75 J	<0.18	<0.24	<0.35	0.84 J	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/1/14	6.8	<0.33	58	1.02 J	<0.18	<0.24	0.6 J	1.06	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
9/19/16 **	6.0	<0.47	52	1.14 J	0.24 J	<0.44	<1	1.37 J	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1	
2/7/20	7.1	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71	
4/29/21	10.7	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21	5.9	0.76 J	46	0.62 J	<0.17	<0.38	<0.46	1.16 J	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21 DUP	7.4	0.98 J	42	<0.6	<0.17	<0.38	<0.46	0.96 J	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
MW-10	7/1/05	13	0.75	1.6	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<0.16	<2.63
	1/1/06	13	0.91	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<0.17	<2.63
	8/1/06	14	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<0.18	<2.63
	11/1/06	21	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<0.19	<2.63
	4/1/08	3.5	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<0.20	<2.63
	3/6/12	9.5	<0.48	<0.83	<0.19	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	0.30 J	<0.81	<0.67	<1.80	<2.63
	6/6/12	11	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	18.9	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	7.2	<0.19	<0.12	<0.11	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	6/19/13	21	<0.19	<0.12	<0.11	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	9/18/13	11	<0.19	<0.12	<0.11	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/17/13	7.3	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	12.4	0.40 J	0.57 J	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	8.4	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/19/16	8.6	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
	2/7/20	1.35	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71
	4/28/21	1.4 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21
10/22/21	9.7	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	

**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**  
Former Robinson's Cleaners  
1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
		Chlorinated VOCs					Petroleum VOCs										
<b>Enforcement Standard (µg/l)</b>		<b>5</b>	<b>5</b>	<b>70</b>	<b>100</b>	<b>0.2</b>	<b>5</b>	<b>NE</b>	<b>NE</b>	<b>700</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>NE</b>	<b>1,000</b>	<b>400</b>	<b>10,000</b>
<b>Preventive Action Limit (µg/l)</b>		<b>0.5</b>	<b>0.5</b>	<b>7</b>	<b>20</b>	<b>0.02</b>	<b>0.5</b>	<b>NE</b>	<b>NE</b>	<b>140</b>	<b>NE</b>	<b>NE</b>	<b>10</b>	<b>NE</b>	<b>200</b>	<b>96</b>	<b>1,000</b>
MW-11	7/1/05	0.63	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	1/1/06	<0.45	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	8/1/06	<0.45	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	11/1/06	<0.45	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	<0.45	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	7/1/11	<0.45	<0.48	<0.20	<0.19	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	3/6/12	<0.45	<0.48	<0.20	<0.19	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	6/6/12	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	<5	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/19/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	6/19/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/18/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	12/17/13	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
9/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
12/1/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
9/19/16	<0.49	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1	
MW-13	7/1/05	30	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	1/1/06	20	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	8/1/06	50	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	11/1/06	46	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	231	1.1	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	7/1/11	78.7	<0.48	<0.20	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	3/6/12	59	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	6/6/12	42	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	6.12	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	5.8	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/20/13	11	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	6/19/13	220	1.1	1.1	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/18/13	27	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	12/17/13	8.3	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/14/14 **	6.3	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	31.2	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	17.1	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/1/14	7.5	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/19/16	7.5	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
2/7/20	109	0.32 J	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71	
4/29/21	1.5 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
4/29 DUP	1.69 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21	1.53 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	

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 Former Robinson's Cleaners  
 1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
		Chlorinated VOCs						Petroleum VOCs									
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000
MW-14	7/1/05	31	1.0	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	1/1/06	27	0.70	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	8/1/06	43	0.81	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	11/1/06	24	<0.46	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	12.1	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	7/1/11	8.8	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	3/6/12	14	0.27 J	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	6/6/12	12	0.26 J	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	10.9	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	16	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/19/13	9.8	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	6/19/13	4.4	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	9/19/13	14	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	0.45 J	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	0.36 J
	12/16/13	6.9	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	0.91 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	8.9	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	2.53	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/20/16	4.1	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
2/6/20	<0.38	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	0.26 J	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71	
4/29/21	<0.54	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/19/21	<0.54	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
MW-15	8/1/06	24	0.72	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	11/1/06	26	2.5	2.3	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	6.6	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	3/6/12	0.94	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	6/7/12	1.3	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.54	<0.14	<0.17	<0.16	<0.13	<0.67	<0.32	<0.068
	9/1/12	<5	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	14	1.3	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/20/13	15	0.55	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	6/19/13	15	0.43 J	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/18/13	12	0.41 J	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	12/15/13	6.5	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	15.7	1.12	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	4.0	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	1.75	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/1/14	2.39	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/19/16	0.66 J	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
	2/6/20	<0.38	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71
	4/28/21 **	0.64 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21
4/28/21 DUP **	0.64 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/19/21	2.46	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	

**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**  
Former Robinson's Cleaners  
1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes	
		Chlorinated VOCs						Petroleum VOCs										
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000	
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000	
MW-16	8/1/06	3.1	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.13	<0.59	<0.67	<0.74	<0.81	<0.11	<1.80	<2.63	
	11/1/06	6.6	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	4/1/08	1.5	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	3/6/12	1.4 J	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	6/6/12	1.5	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.54	<0.14	<0.17	<0.16	<0.13	<0.67	<0.32	<0.68	
	9/1/12	<5	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	2.2	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/19/13	1.8	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	6/19/13	1.7	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	9/19/13	2.0	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/16/13	1.57	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	3/4/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	6/25/14	1.81	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	9/25/14	1.88	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	12/12/14	1.45	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	9/20/16	2.49	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1	
2/6/20		Well Destroyed During Property Redevelopment																
MW-17	4/1/08	19.3	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	7/1/11	43.6	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	3/6/12	18	<0.48	<0.83	<0.89	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63	
	6/7/12	24	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.54	<0.14	<0.17	<0.16	<0.13	<0.67	<0.32	<0.068	
	9/1/12	<5	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	12/12/12	3.0	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/20/13	9.1	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	6/19/13	18	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/18/13	15	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/18/13	12.7	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	3/4/14	3.09	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	6/25/14	2.11	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	9/24/14	26.6	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	12/1/14	8.0	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69	
	9/19/16	16.9	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1	
	2/7/20	36	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71	
	4/29/21	14.2	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21	8.1	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21		

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Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
		Chlorinated VOCs					Petroleum VOCs										
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000
MW-18	9/19/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/16/13	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
MW19	9/19/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/16/13	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
MW-20	9/19/13	<0.17	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/16/13	0.64 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/3/14	0.41 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14	0.61 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	<0.33	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	0.35 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/20/16	<0.49	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
	2/6/20	<0.38	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71
MW-21	9/19/13	7.4	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	12/16/13	5.6	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/4/14	5.6	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/24/14	4.8	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14	5.5	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	5.5	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/20/16	5.9	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
	2/6/20	3.3	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71
4/28/21	3.09	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/19/21	2.77	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	

**Table 2**  
**Summary of Monitoring Well Sample Analytical Results**

Former Robinson's Cleaners  
 1036 4th Street, Beloit, Wisconsin

Monitoring Well ID	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
		Chlorinated VOCs						Petroleum VOCs									
Enforcement Standard (µg/l)		5	5	70	100	0.2	5	NE	NE	700	NE	NE	100	NE	1,000	400	10,000
Preventive Action Limit (µg/l)		0.5	0.5	7	20	0.02	0.5	NE	NE	140	NE	NE	10	NE	200	96	1,000
PZ-12	7/1/05	1.9	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	1/1/06	2.8	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	8/1/06	8.0	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	11/1/06	6.2	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	4/1/08	2.3	<0.48	<0.83	ND	ND	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	3/6/12	3.0	<0.48	<0.83	<0.19	<0.18	<0.41	<0.93	<0.89	<0.54	<0.59	<0.67	<0.74	<0.81	<0.67	<1.80	<2.63
	6/6/12	2.4	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/1/12	<5	<5	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/12	2.1	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.14	<0.068
	3/20/13	2.8	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	6/19/13	2.0	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	9/18/13	1.8	<0.19	<0.12	<0.25	<0.10	<0.074	<0.13	<0.15	<0.13	<0.14	<0.17	<0.16	<0.13	<0.11	<0.32	<0.068
	12/16/13 **	2.05	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	3/3/14	1.85	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	6/25/14 **	1.42	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14**	3.9	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/1/14	1.63	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/19/16	2.06	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
2/6/20	1.2 J	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71	
4/29/21	1.13 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21	1.22 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
10/22/21 DUP	1.2 J	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	
PZ-22	6/24/14	0.87 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/25/14 **	0.66 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	12/2/14	0.85 J	<0.33	<0.38	<0.35	<0.18	<0.24	<0.35	<0.33	<0.55	<0.3	<0.31	<1.7	<0.25	<0.69	<2.2	<0.69
	9/20/16	0.86 J	<0.47	<0.45	<0.54	<0.17	<0.44	<1	<1.2	<0.71	<0.82	<1.1	<1.6	<0.77	<0.44	<3.1	<3.1
	2/6/20	0.49 J	<0.3	<0.37	<0.34	<0.2	<0.22	<0.71	<0.79	<0.26	<0.78	<0.24	<2.1	<0.61	<0.19	<1.43	<0.71
	4/29/21	<0.54	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21
10/22/21	<0.54	<0.47	<0.39	<0.6	<0.17	<0.38	<0.46	<0.31	<0.37	<0.3	<0.43	<1.4	<0.44	<0.42	<0.73	<1.21	

**Notes:**

All concentrations reported in units of micrograms per liter (µg/L)  
 Samples analyzed using EPA SW-846 Method 8260  
 VOCs = Volatile Organic Compounds  
 \*\* = Chloroform was detected in this sample  
**Bolded** and orange shaded values are above Public Health Enforcement Standards  
**Bolded** and blue shaded values are above Public Health Preventive Action Limits  
**Bolded** values are above detection limits  
 ND = Not Detected over laboratory detection limits as reported in Shaw Environmental's 2010 Summary Letter  
 PNR = Parameter Not Reported as read from Shaw Environmental's 2010 Summary Letter  
 NE = No standard established  
 Petroleum VOCs are not related to the breakdown of PCE and are not subject to cleanup by Robinson Cleaners

**Table 3**  
**Summary of Sub-Slab Vapor Sample Analytical Results**  
Former Robinson's Cleaners  
Beloit, Wisconsin

Sample Identification	Property Address (4th Street)	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Acetone	Benzene	2-Butanone	Chloroform	Chloromethane	n-Heptane	n-Hexane	Methylene Chloride	Toluene
6154-SSB	1036	2/25/2010	<b>1,080,000</b>	< 4,730	< 6,970	< 6,970	< 4,470	<b>4,440</b>	< 5,590	< 5,160	NA	< 3,610	< 7,140	< 6,190	< 6,110	< 6,220
		8/26/2010	<b>180,000</b>	<b>35.8</b>	< 0.87	< 0.87	< 0.87	<b>9.7</b>	<b>1.6</b>	< 0.87	NA	< 0.87	< 0.87	<b>16.6</b>	<b>109</b>	<b>3.7</b>
6154-SSM		2/25/2010	<b>1,410,000</b>	< 9,460	< 13,900	< 13,900	< 8,950	< 8,260	< 11,200	< 10,300	NA	< 7,230	< 14,300	< 12,400	< 12,200	< 13,200
		8/26/2010	<b>262,000</b>	< 4,450	< 4,450	< 4,450	< 4,450	< 4,450	< 4,450	< 4,450	NA	< 4,450	< 4,450	< 4,450	< 4,450	< 4,450
6154-SSF		2/25/2010	<b>7,920</b>	<b>6.4</b>	< 1.4	< 1.4	< 0.87	<b>42.1</b>	<b>1.1</b>	< 1	NA	< 0.71	<b>1.8</b>	<b>26.4</b>	<b>314</b>	<b>10.6</b>
		8/26/2010	<b>34.3</b>	< 0.87	< 0.87	< 0.87	< 0.87	<b>24.5</b>	< 0.87	<b>1.3</b>	NA	< 0.87	< 0.87	< 0.87	< 0.87	<b>1.2</b>
6154-1036-SSV-WEST	1036	8/14/2013	<b>66,400</b>	<b>971</b>	<198	<396	<12.8	<23,800	<16.0	<29,500	<8.30	<206	<4,100	<1,769	<417	<37,700
		1/14/2020	<b>36,800</b>	<b>74.7</b>	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA
6154-1036-SSV-MIDDLE		8/14/2013	<b>797,000</b>	<b>470</b>	<198	<396	<12.8	<23,800	<b>18.2</b>	<29,500	<b>14.6</b>	<206	<4,100	<1,769	<417	<37,700
		1/14/2020	<b>38,000</b>	<b>30.8</b>	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA
6154-1036-SSV-EAST		8/14/2013	<b>21,100</b>	<10.7	<198	<396	<12.8	<23,800	<16.0	<29,500	<8.30	<206	<4,100	<1,769	<417	<37,700
		1/14/2020	<b>10,600</b>	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Non-Residential Vapor Risk Screening Level</b>			<b>5,800</b>	<b>290</b>	<b>NL</b>	<b>5,800</b>	<b>930</b>	<b>4,700,000</b>	<b>520</b>	<b>730,000</b>	<b>180</b>	<b>13,000</b>	<b>NL</b>	<b>100,000</b>	<b>88,000</b>	<b>730,000</b>

**Notes:**

All concentrations reported in units in micrograms per cubic meter (µg/m<sup>3</sup>)

**Bolded** and shaded values exceed WDNR Non-Residential Vapor Risk Screening Levels as defined in Publication RR-800

**Bolded** values are above detection limits

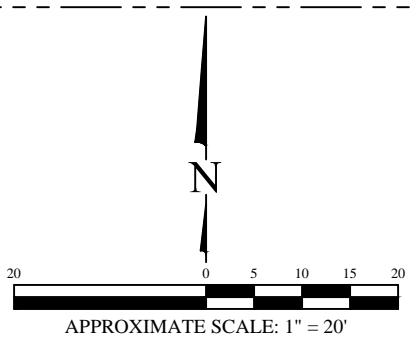
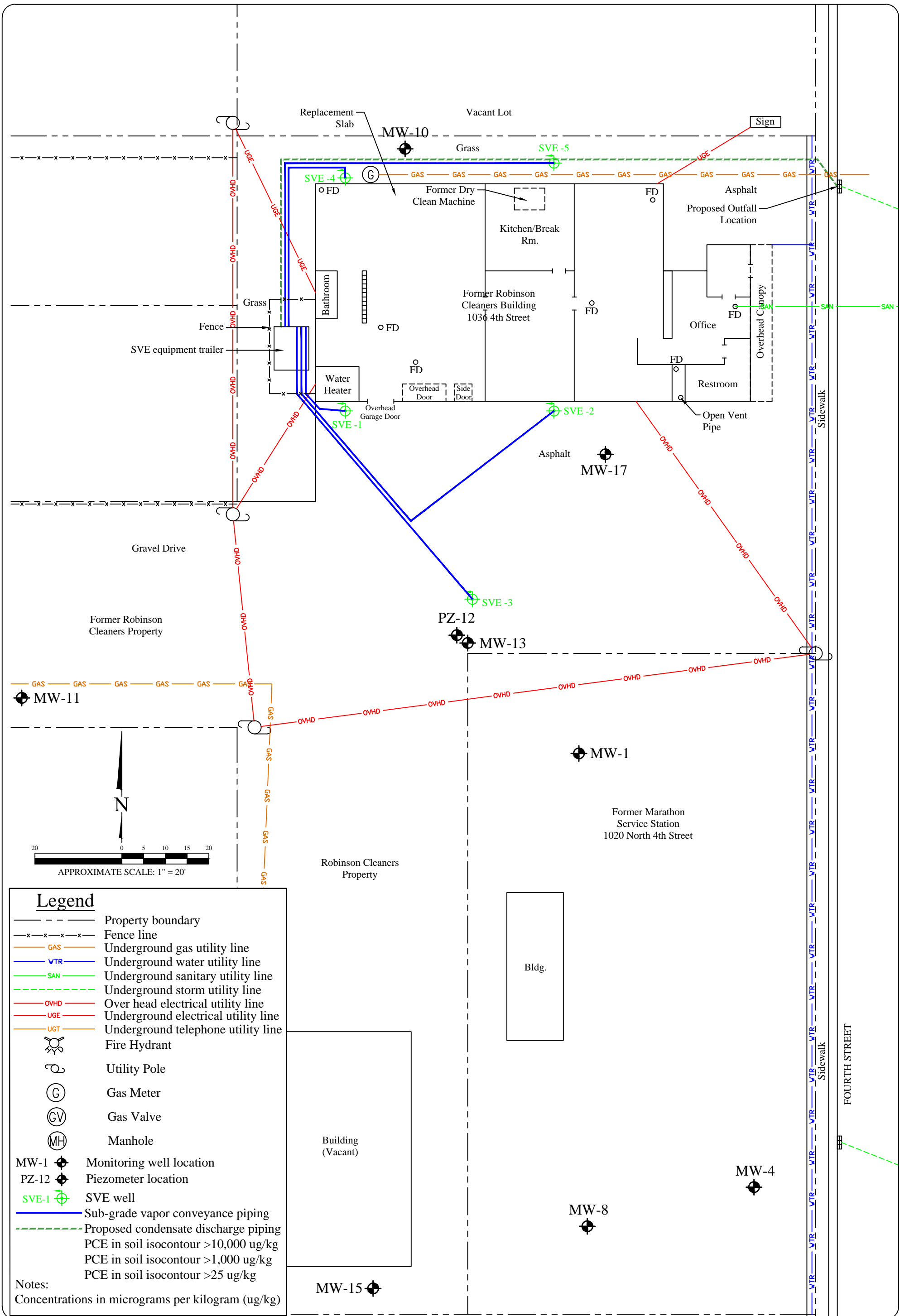
NL = No screening level established

NA = Not Analyzed

Compounds unrelated to the breakdown of PCE are subject to cleanup by Robinson's Cleaners.

## FIGURES





**Legend**

- Property boundary
- Fence line
- GAS Underground gas utility line
- WTR Underground water utility line
- SAN Underground sanitary utility line
- Underground storm utility line
- OVHD Over head electrical utility line
- UGE Underground electrical utility line
- UGT Underground telephone utility line
- Fire Hydrant
- Utility Pole
- Gas Meter
- Gas Valve
- Manhole
- MW-1 Monitoring well location
- PZ-12 Piezometer location
- SVE-1 SVE well
- Sub-grade vapor conveyance piping
- Proposed condensate discharge piping

Notes:  
 Concentrations in micrograms per kilogram (ug/kg)  
 PCE in soil isocontour >10,000 ug/kg  
 PCE in soil isocontour >1,000 ug/kg  
 PCE in soil isocontour >25 ug/kg

No.	Date	Revision	Approved

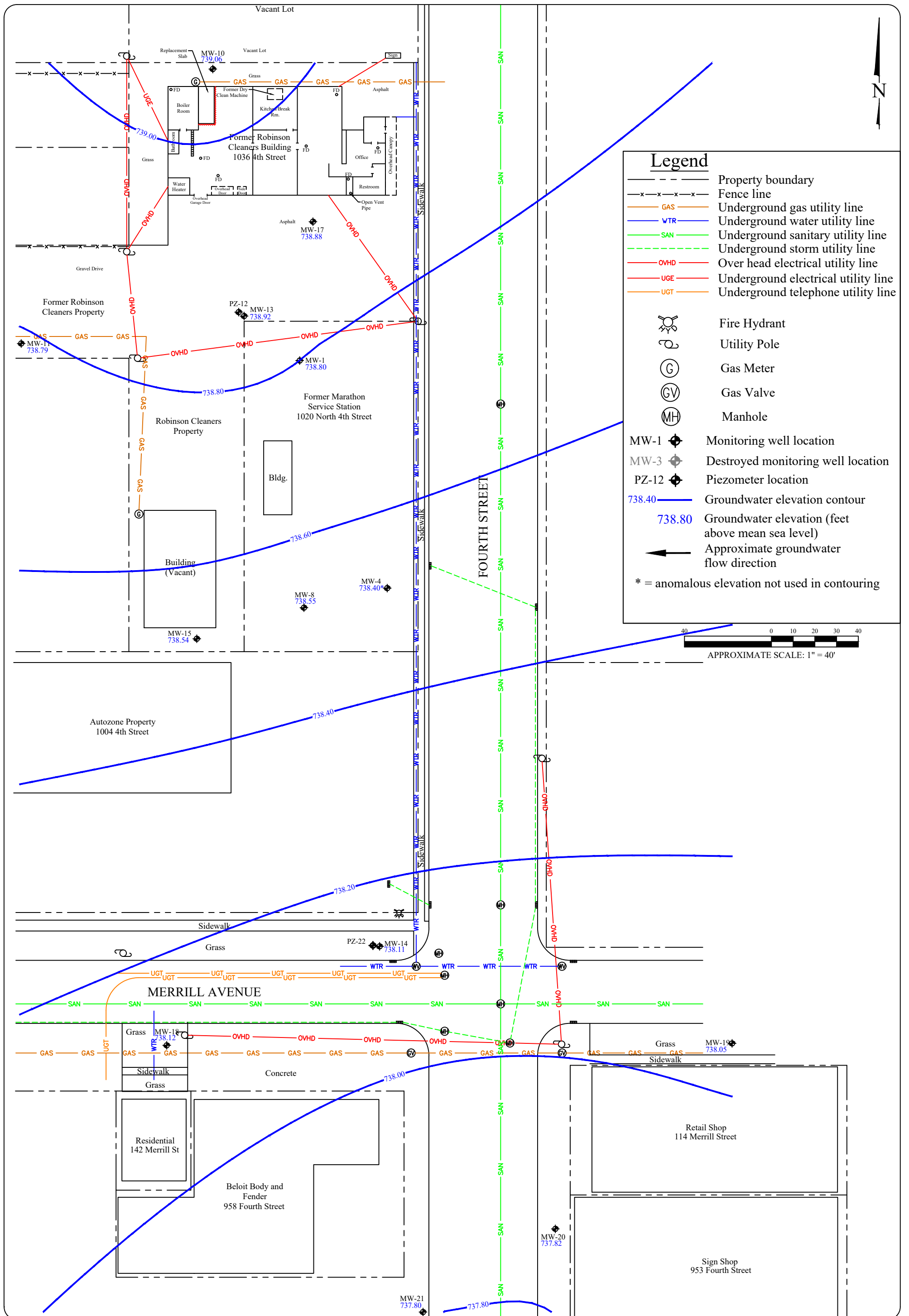
825 North Capitol Avenue • Indianapolis, IN 46204  
 EnviroForensics.com

Date:	11/14/18
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6154-1169

**SOIL VAPOR EXTRACTION SYSTEM LAYOUT**

Robinson's Cleaners: Beloit  
 1036 4th Street  
 Beloit, Wisconsin

Figure	1
Project	6154



No.	Date	Revision	Approved

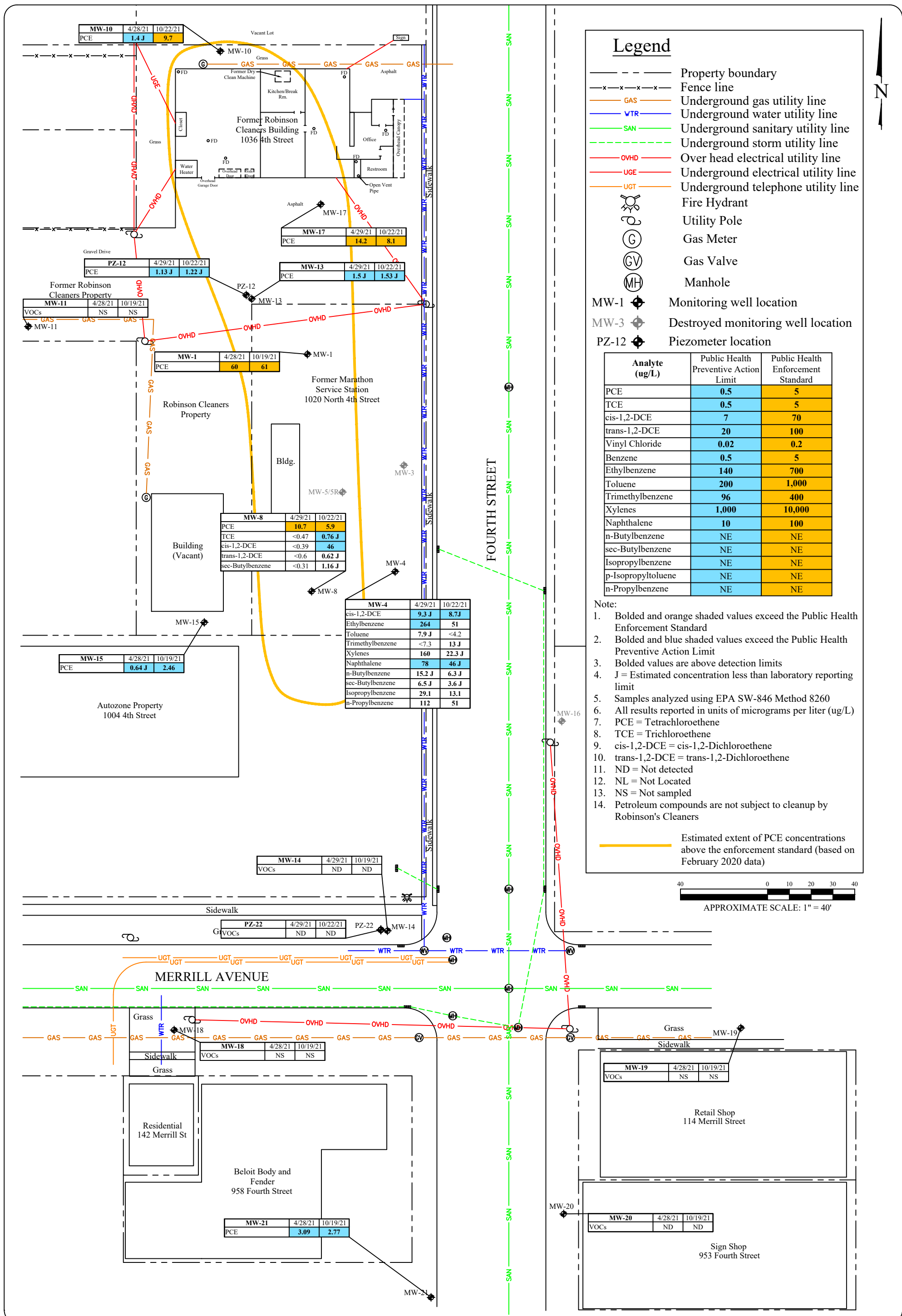
**ENVIROforensics**

825 North Capitol Avenue • Indianapolis, IN 46204  
 EnviroForensics.com

Date: 12/14/21  
 Designed: EB  
 Drawn: EB  
 Checked: BK  
 DWG file: 6154-1475

**GROUNDWATER CONTOUR MAP**  
 OCTOBER 19, 2021  
 Robinson's Cleaners: Beloit  
 1036 4th Street  
 Beloit, Wisconsin

Figure
2
Project
6154



### Legend

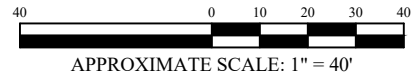
- Property boundary
- Fence line
- GAS
- WTR
- SAN
- Undergrnd storm utility line
- OVD
- UGE
- UGT
- Fire Hydrant
- Utility Pole
- Gas Meter
- Gas Valve
- Manhole
- MW-1 Monitoring well location
- MW-3 Destroyed monitoring well location
- PZ-12 Piezometer location

Analyte (ug/L)	Public Health Preventive Action Limit	Public Health Enforcement Standard
PCE	0.5	5
TCE	0.5	5
cis-1,2-DCE	7	70
trans-1,2-DCE	20	100
Vinyl Chloride	0.02	0.2
Benzene	0.5	5
Ethylbenzene	140	700
Toluene	200	1,000
Trimethylbenzene	96	400
Xylenes	1,000	10,000
Naphthalene	10	100
n-Butylbenzene	NE	NE
sec-Butylbenzene	NE	NE
Isopropylbenzene	NE	NE
p-Isopropyltoluene	NE	NE
n-Propylbenzene	NE	NE

Note:

- Bolded and orange shaded values exceed the Public Health Enforcement Standard
- Bolded and blue shaded values exceed the Public Health Preventive Action Limit
- Bolded values are above detection limits
- J = Estimated concentration less than laboratory reporting limit
- Samples analyzed using EPA SW-846 Method 8260
- All results reported in units of micrograms per liter (ug/L)
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- cis-1,2-DCE = cis-1,2-Dichloroethene
- trans-1,2-DCE = trans-1,2-Dichloroethene
- ND = Not detected
- NL = Not Located
- NS = Not sampled
- Petroleum compounds are not subject to cleanup by Robinson's Cleaners

Estimated extent of PCE concentrations above the enforcement standard (based on February 2020 data)



No.	Date	Revision	Approved

825 North Capitol Avenue • Indianapolis, IN 46204  
EnviroForensics.com

Date:	12/14/21
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6154-1474

GROUNDWATER ANALYTICAL RESULTS AND PLUME MAP  
Robinson's Cleaners: Beloit  
1036 4th Street  
Beloit, Wisconsin

Figure	3
Project	6154

### Legend

- Property boundary
- x-x-x-x-x- Fence line
- GAS— Underground gas utility line
- WTR— Underground water utility line
- SAN— Underground sanitary utility line
- - - - - Underground storm utility line
- OVHD— Over head electrical utility line
- UGE— Underground electrical utility line
- UGT— Underground telephone utility line

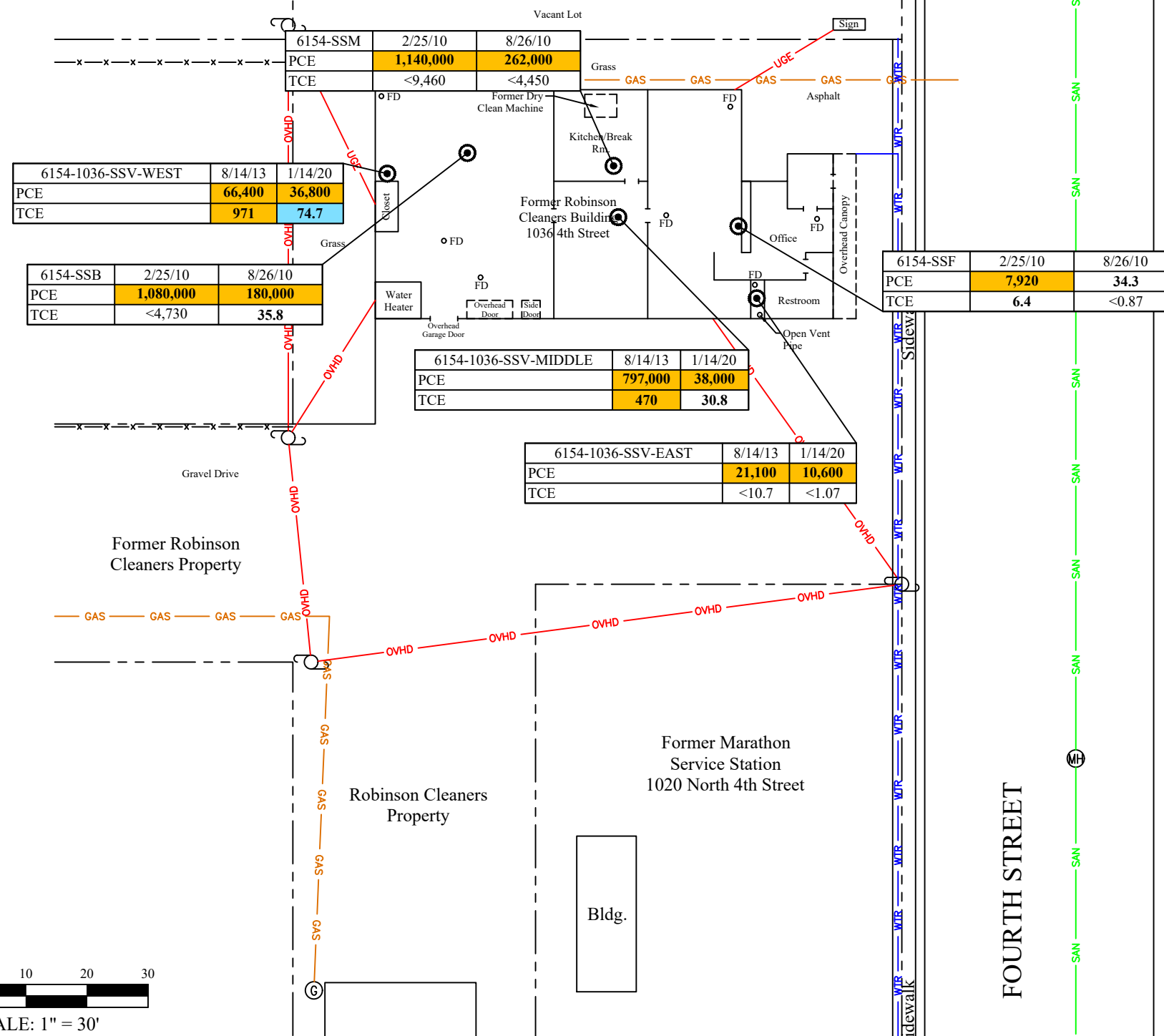
- Fire Hydrant
- Utility Pole
- Gas Meter
- Gas Valve
- Manhole

Sub-slab sample location

Sub-Slab Vapor		
Analyte (ug/m <sup>3</sup> )	Residential Vapor Risk Screening Level	Small Commercial Vapor Risk Screening Level
PCE	<b>1,400</b>	<b>6,000</b>
TCE	<b>70</b>	<b>290</b>

Note:

1. Bolded and shaded values exceed Vapor Risk Screening Levels
2. All results reported in micrograms per cubic meter (ug/m<sup>3</sup>)
3. NE = Not established
4. PCE = Tetrachloroethene
5. TCE = Trichloroethene
6. Only compounds PCE and TCE are shown



6154-1036-SSV-WEST	8/14/13	1/14/20
PCE	<b>66,400</b>	<b>36,800</b>
TCE	<b>971</b>	<b>74.7</b>

6154-SSB	2/25/10	8/26/10
PCE	<b>1,080,000</b>	<b>180,000</b>
TCE	<4,730	<b>35.8</b>

6154-1036-SSV-MIDDLE	8/14/13	1/14/20
PCE	<b>797,000</b>	<b>38,000</b>
TCE	<b>470</b>	<b>30.8</b>

6154-1036-SSV-EAST	8/14/13	1/14/20
PCE	<b>21,100</b>	<b>10,600</b>
TCE	<10.7	<1.07

6154-SSF	2/25/10	8/26/10
PCE	<b>7,920</b>	<b>34.3</b>
TCE	<b>6.4</b>	<0.87

6154-SSM	2/25/10	8/26/10
PCE	<b>1,140,000</b>	<b>262,000</b>
TCE	<9,460	<4,450

### SUB-SLAB VAPOR SAMPLE ANALYTICAL RESULTS MAP

Robinson's Cleaners: Beloit  
1036 4th Street  
Beloit, Wisconsin

Date:	8/18/21
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6154-1454

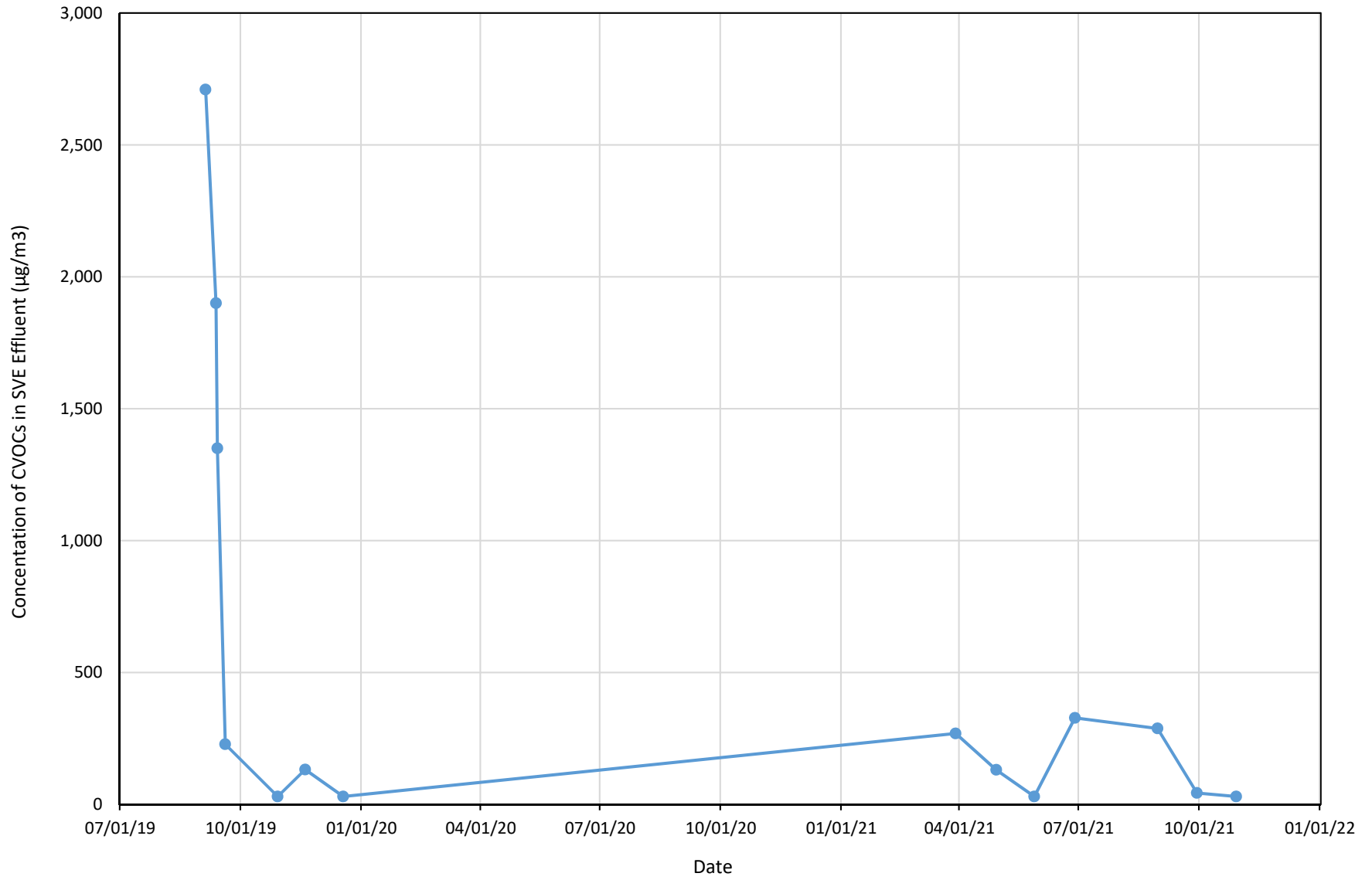


825 North Capitol Avenue • Indianapolis, IN 46204  
EnviroForensics.com

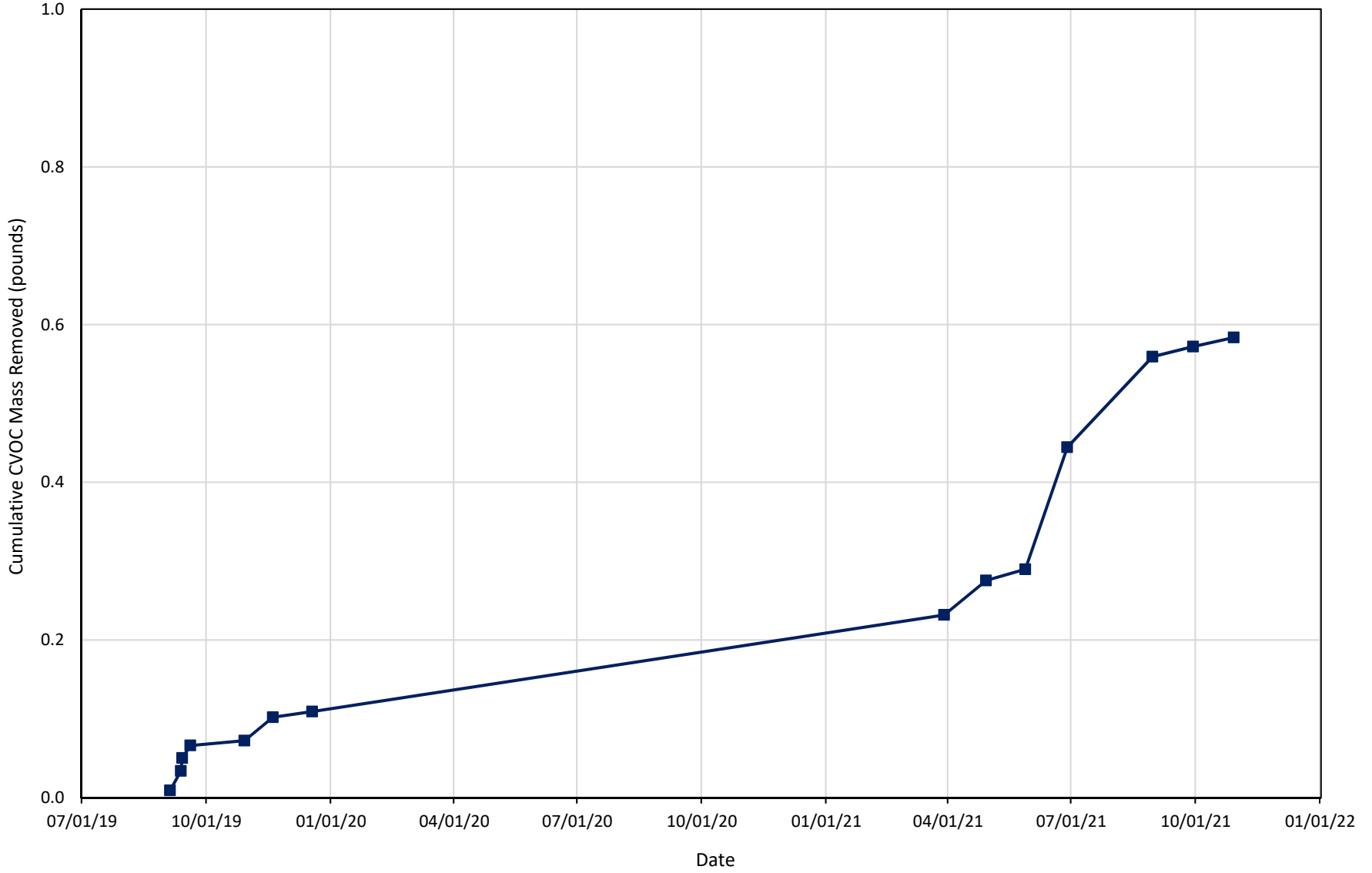
Figure	4
Project	6154

## SVE DATA CHARTS

**Chart 1**  
**Vapor Phase CVOC Concentration Trend**  
Former Robinson's Cleaners, Beloit, Wisconsin



**Chart 2**  
**Cumulative CVOC Mass Removed**  
Former Robinson's Cleaners, Beloit, Wisconsin

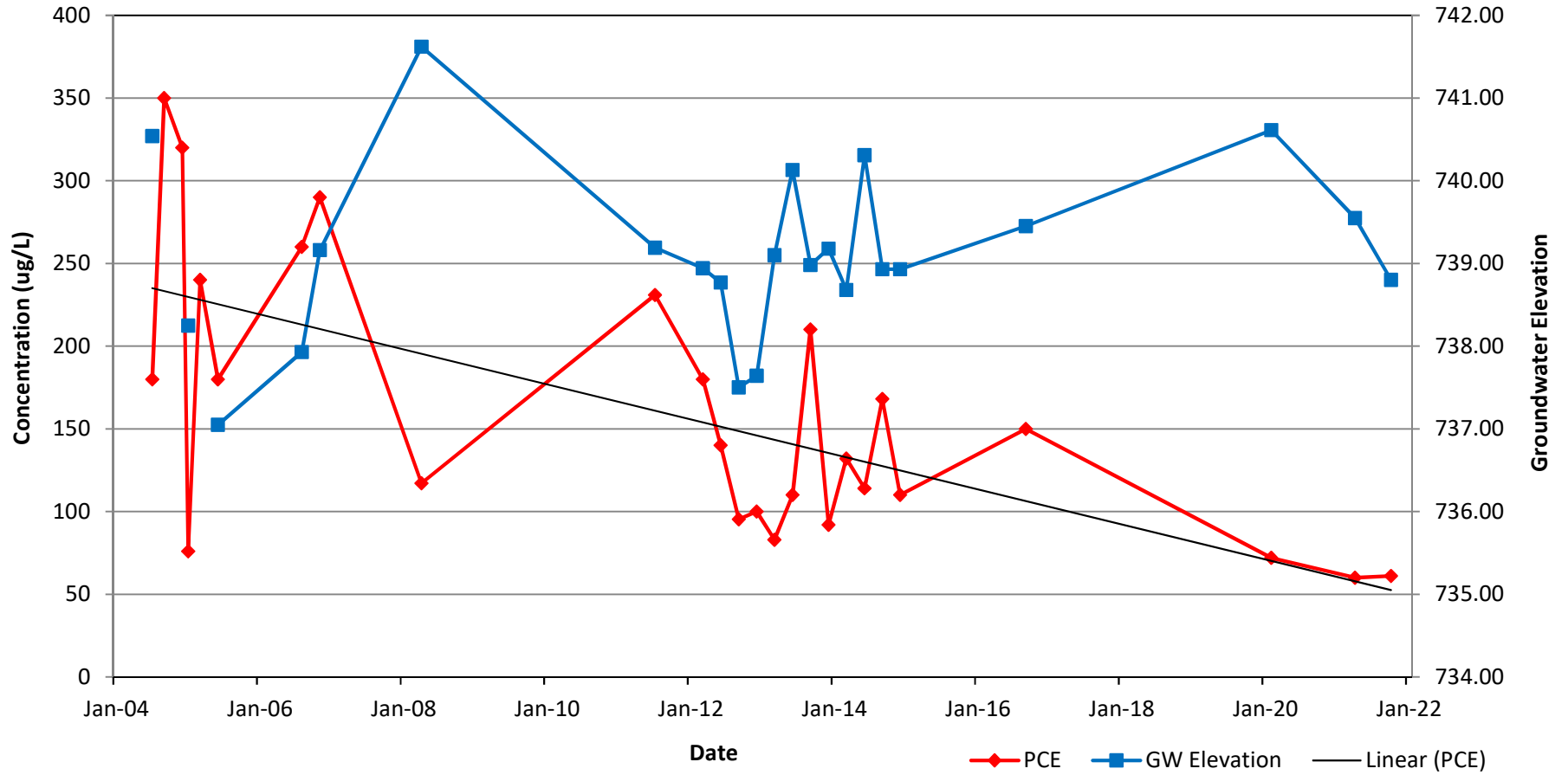


**ATTACHMENT 1**

**GROUNDWATER CONCENTRATION TREND CHARTS**

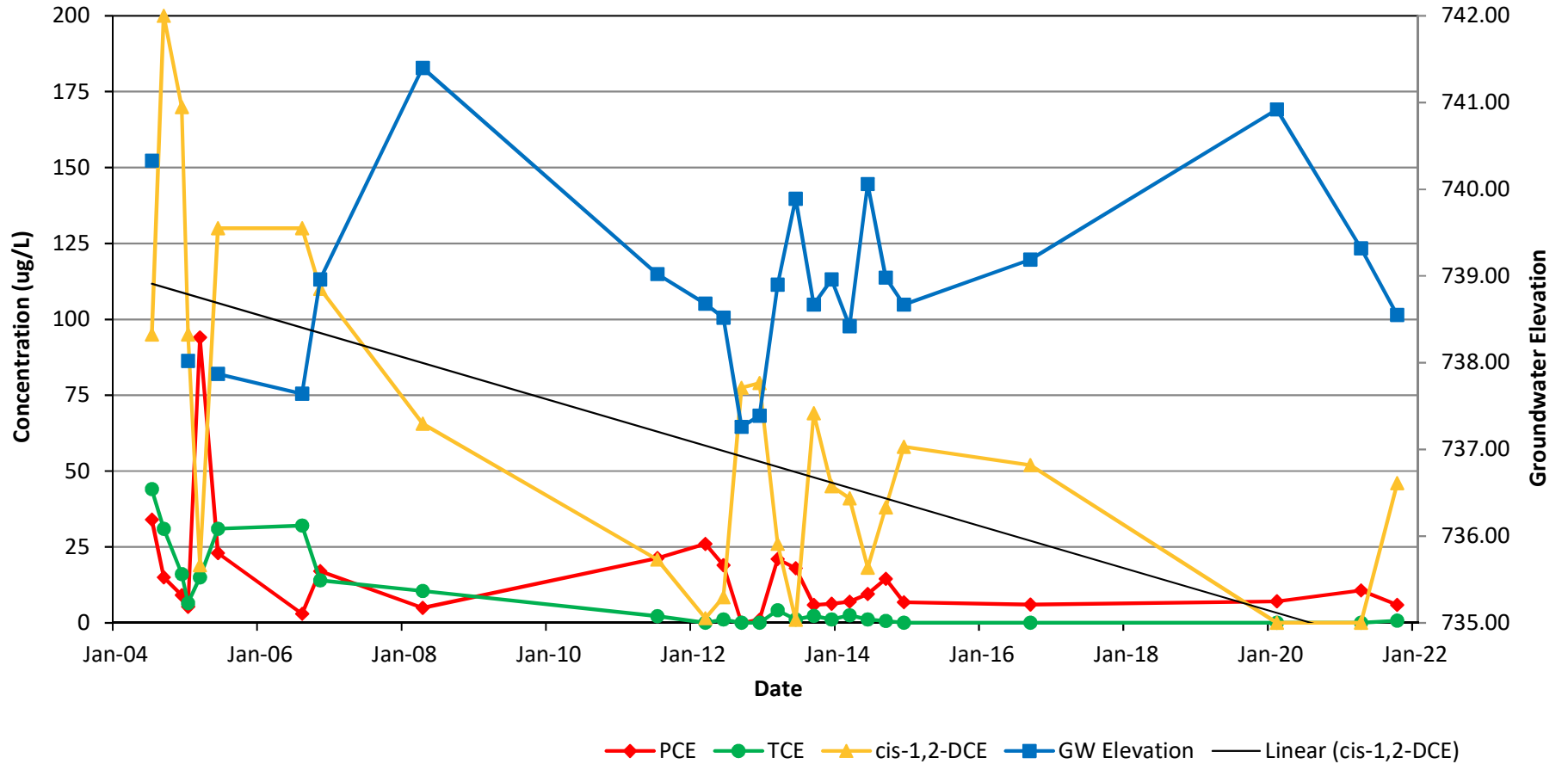


**MW-1**  
**PCE Concentration and Groundwater Elevation vs. Time**

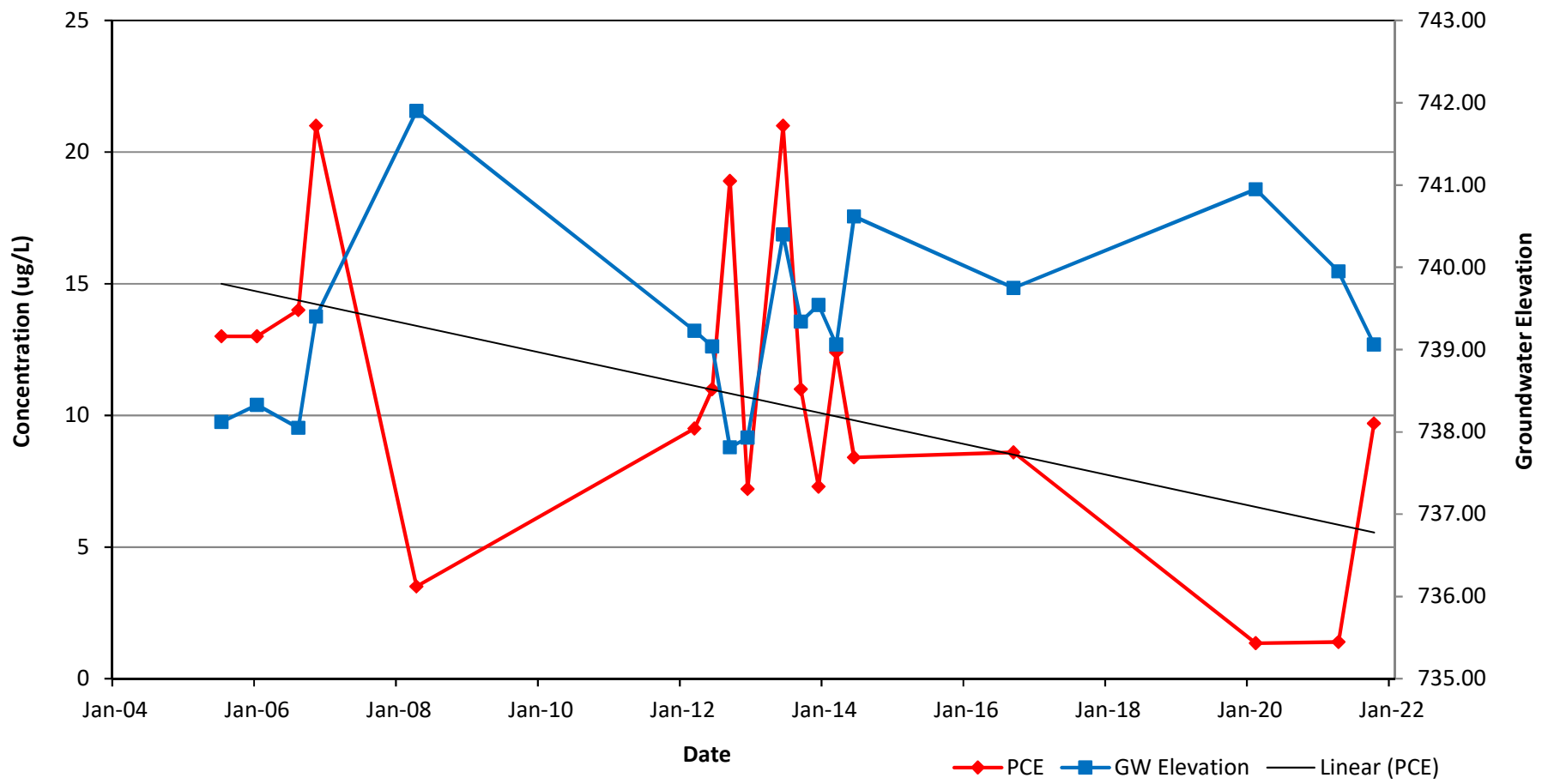


# MW-8

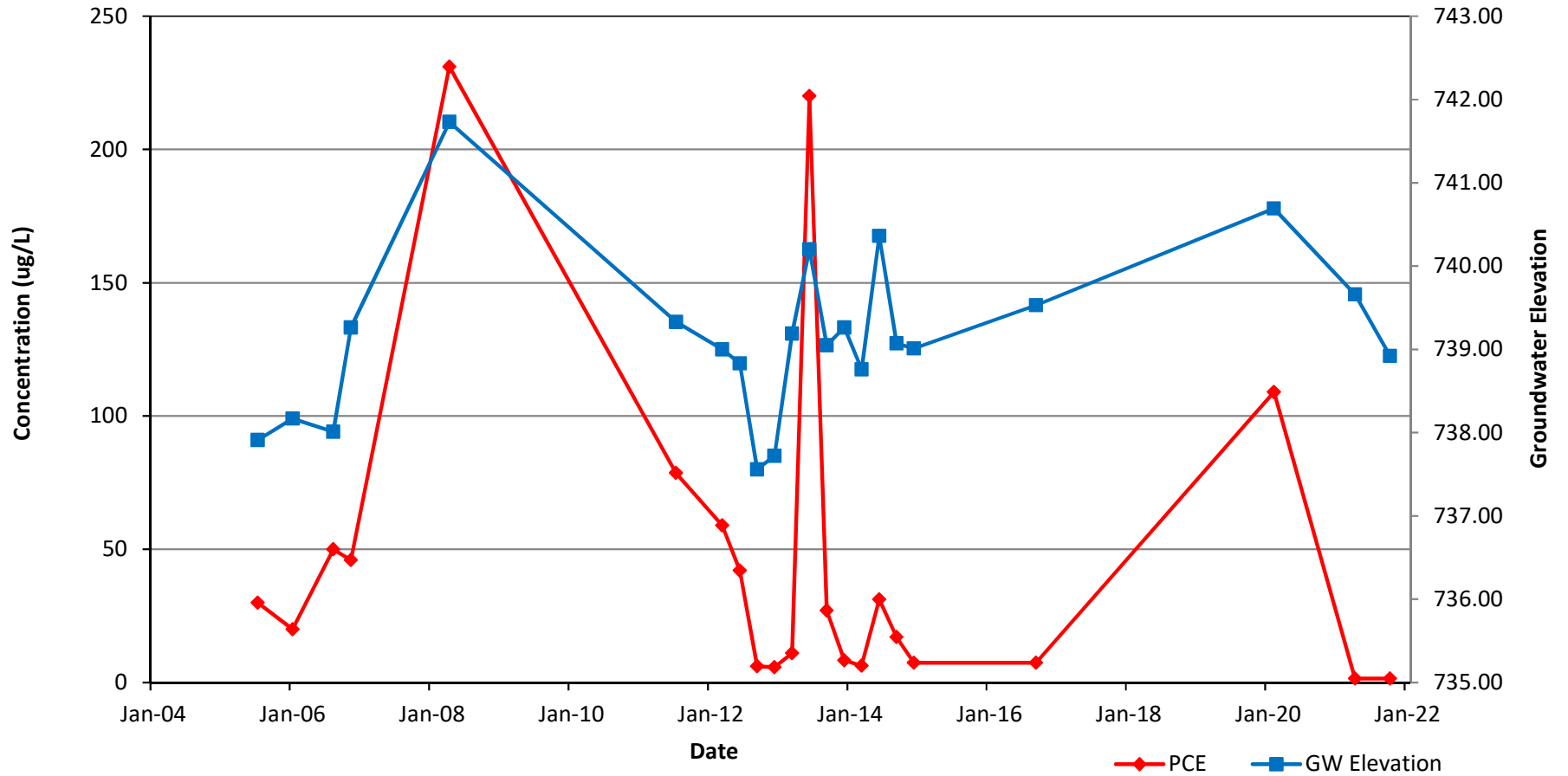
## CVOC Concentration and Groundwater Elevation vs. Time



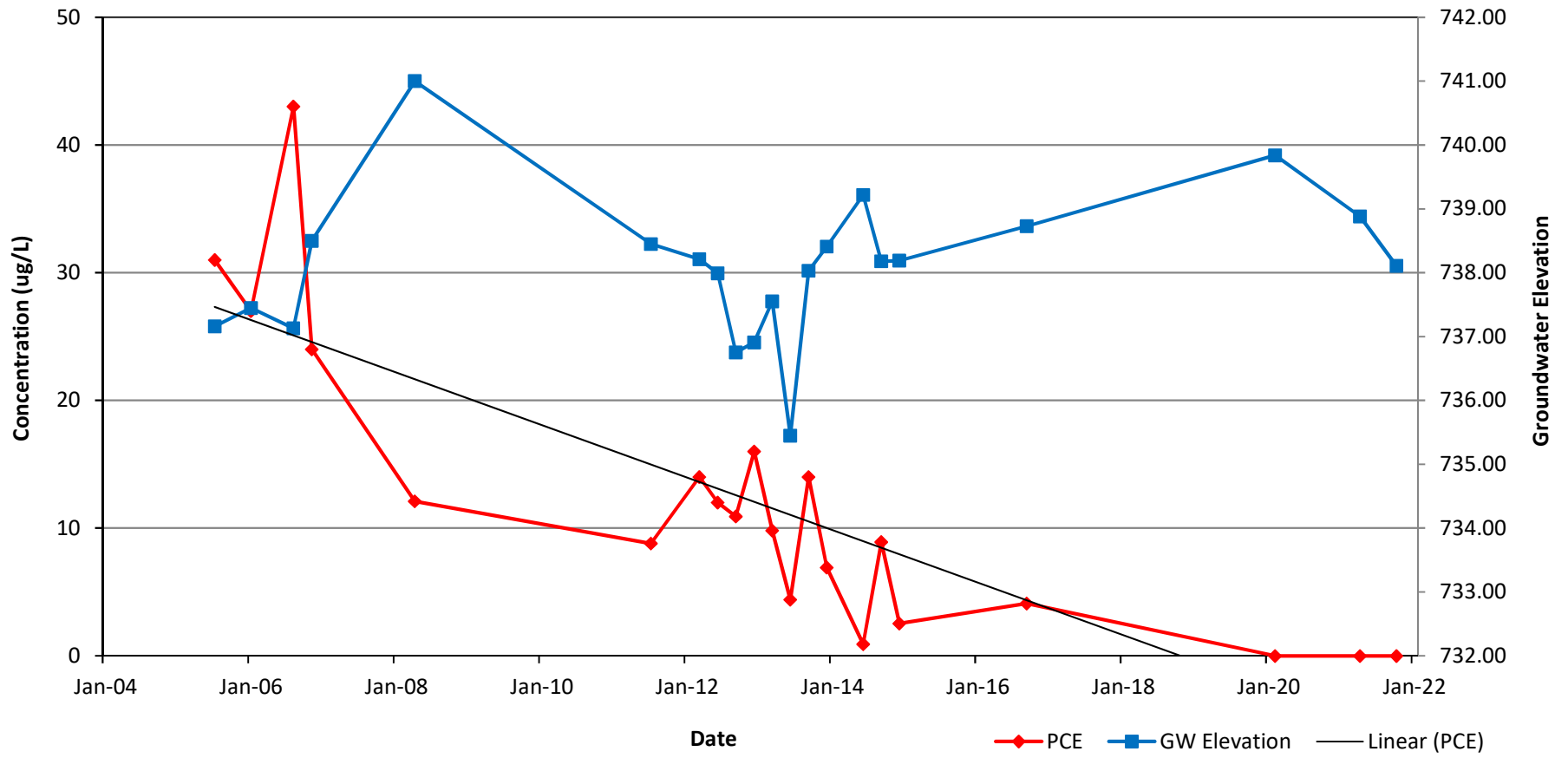
**MW-10**  
**PCE Concentration and Groundwater Elevation vs. Time**



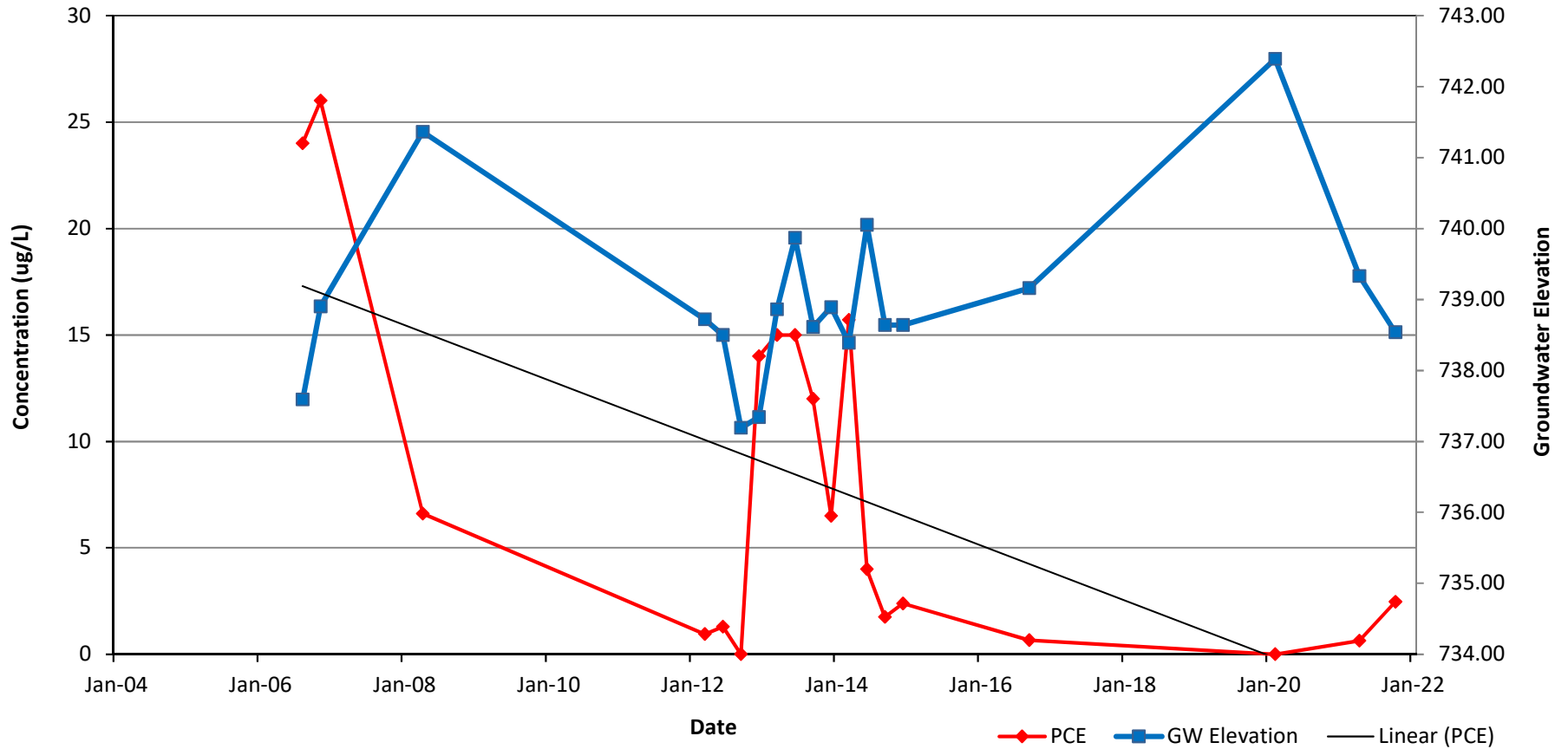
**MW-13**  
**PCE Concentration and Groundwater Elevation vs. Time**



**MW-14**  
**PCE Concentration and Groundwater Elevation vs. Time**



**MW-15**  
**PCE Concentration and Groundwater Elevation vs. Time**



**MW-17**  
**PCE Concentration and Groundwater Elevation vs. Time**

