

From: R. Scott Powell <rspowell@enviroforensics.com>
Sent: Friday, June 2, 2023 10:42 AM
To: Schultz, Josie M - DNR
Cc: Andy Skwierawski; Wayne Fassbender
Subject: 1404 S Webster, BRRTS # 02-05-514372
Attachments: 200030 - 2023 Q2 Analytical Summary Map.pdf; 200030 - 2023 Q2 Potentiometric surface map.pdf; 200030 - 2023 Q2 Summary Tables.pdf

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Hello Josie,

I have attached the 2023 Q2 data tables, potentiometric flow map, and a groundwater analytical summary figure for your review. Let me know if you have any questions.

Best regards,

R. Scott Powell, PE, LPG | Regional Director
EnviroForensics® | 825 North Capitol Avenue | Indianapolis, IN 46204
Direct 317.608.2706 | Mobile 248.909.7290 | enviroforensics.com

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MW-8		
17.85-27.85 ft	4/24/23	
PCE		0.315 J

MW-7		
16.85-26.85 ft	4/24/23	
PCE		0.745 J

MW-9		
14.13-24.13 ft	4/24/23	
VOCs		ND

MW-10		
13.5-23.5 ft	4/23/23	
PCE		0.403 J

MW-4		
17-32 ft	4/24/23	
PCE		134
TCE		7.22
cis-1,2-DCE		4.0
trans-1,2-DCE		1.43

MW-1		
19-29 ft	4/23/23	
PCE		64.1
cis-1,2-DCE		22.6
trans-1,2-DCE		9.85

MW-1D		
45.13-50.13 ft	4/24/23	
PCE		0.616 J
TCE		1.27
cis-1,2-DCE		0.356 J

MW-6		
20-30 ft	4/24/23	
PCE		67.7
TCE		134
cis-1,2-DCE		30.4
trans-1,2-DCE		50.1
Vinyl Chloride		0.578 J

MW-5		
18-28 ft	4/23/23	
PCE		0.588 J
cis-1,2-DCE		21.8
trans-1,2-DCE		1.63

MW-3		
20-30 ft	4/23/23	
PCE		6.28 J
TCE		16.4
cis-1,2-DCE		32.4

MW-2		
14.5-24.5 ft	4/23/23	
PCE		58.6
TCE		39.6
cis-1,2-DCE		1.57
trans-1,2-DCE		1.13

Legend

- Property boundary
- Underground sanitary utility line
- Manhole
- Monitoring Well (By Others)
- Monitoring Well
- Soil Boring
- Sewer gas sample location

Analyte	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

Note:

1. Bolded and orange shaded values exceed the Public Health Enforcement Standard
2. Bolded and blue shaded values exceed the Public Health Preventive Action Limit
3. Bolded values are above detection limits
4. J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit
5. Samples analyzed using EPA SW-846 Method 8260
6. Samples/constituents not shown are below laboratory reporting limits
7. All results reported in units of micrograms per liter (µg/L)
8. PCE = Tetrachloroethene
9. TCE = Trichloroethene
7. cis-1,2-DCE = cis-1,2-Dichloroethene
8. trans-1,2-DCE = trans-1,2-Dichloroethene
9. VOCs = Volatile Organic Compounds
10. ND = Not detected

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS

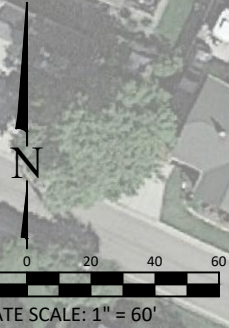
1404 South Webster Avenue
Green Bay, Wisconsin

Date:	6/2/23
Designed:	EB
Drawn:	EB
Checked:	RSP
DWG file:	200030-0467



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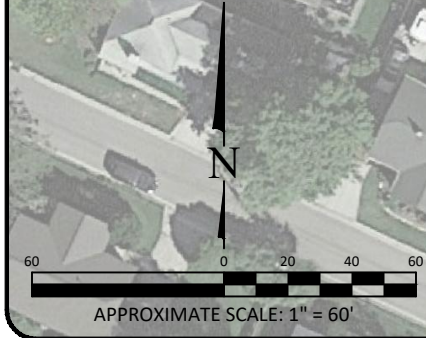
Figure	*
Project	200030





Legend

	Property boundary
	MW-1 Monitoring Well (By Others)
	MW-7 Monitoring Well
	611.00 Groundwater elevation contour
	613.60 Groundwater elevation (feet above mean sea level)



POTENTIOMETRIC SURFACE MAP
 APRIL 21, 2023
 1404 South Webster Avenue
 Green Bay, Wisconsin

Date:	6/2/23
Designed:	EB
Drawn:	EB
Checked:	RSP
DWG file:	200030-0468

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Figure	*
Project	200030

TABLE A.1
MONITORING WELL CONSTRUCTION TABLE

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well ID	Northing	Easting	TOC	Total Depth	Screen Length	Top of Screen	Bottom of Screen
MW-1	246,958.04	2,486,048.70	633.83	29	10	614.83	604.83
MW-1D	246,955.60	2,486,047.25	634.00	50.13	5	588.87	583.87
MW-2	246,885.81	2,486,060.26	635.33	24.5	10	620.83	610.83
MW-3	246,921.48	2,486,064.77	635.02	30	10	615.02	605.02
MW-4	247,035.57	2,485,994.36	631.43	32	15	614.43	599.43
MW-5	247,050.51	2,486,051.18	632.60	28	10	614.60	604.60
MW-6	247,048.71	2,486,111.97	633.90	30	10	613.90	603.90
MW-7	247,309.55	2,486,081.22	632.47	26.85	10	615.62	605.62
MW-8	247,457.30	2,485,816.36	628.91	27.85	10	611.06	601.06
MW-9	247,263.50	2,485,721.28	625.98	24.13	10	611.85	601.85
MW-10	247,147.18	2,485,748.09	628.27	23.5	10	614.77	604.77

TABLE A.2
GROUNDWATER ELEVATION DATA

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well ID	Date	TOC	Depth to Water	Groundwater Elevation
MW-1	01/31/17	633.86	21.26	612.60
	04/20/17		20.86	613.00
	05/30/18		20.78	613.08
	11/26/18		20.28	613.58
	02/24/22		21.70	612.16
	09/29/22		20.80	613.06
	04/21/23		20.26	613.60
MW-2	01/31/17	635.37	22.56	612.81
	04/20/17		22.21	613.16
	05/30/18		22.08	613.29
	11/26/18		21.85	613.52
	02/24/22		23.04	612.33
	09/29/22		22.09	613.28
	04/21/23		21.53	613.84
MW-3	01/31/17	635.04	22.29	612.75
	04/20/17		21.86	613.18
	05/30/18		21.69	613.35
	11/26/18		21.41	613.63
	02/24/22		22.78	612.26
	09/29/22		21.86	613.18
	04/21/23		21.23	613.81
MW-4	01/31/17	631.45	19.37	612.08
	04/20/17		18.98	612.47
	05/30/18		18.83	612.62
	11/26/18		18.48	612.97
	02/24/22		19.89	611.56
	09/29/22		18.89	612.56
	04/21/23		18.34	613.11
MW-5	01/31/17	632.63	20.59	612.04
	04/20/17		20.24	612.39
	05/30/18		20.13	612.50
	11/26/18		19.71	612.92
	02/24/22		20.94	611.69
	09/29/22		20.11	612.52
	04/21/23		19.47	613.16
MW-6	01/31/17	633.93	21.56	612.37
	04/20/17		21.14	612.79
	05/30/18		21.03	612.90
	11/26/18		20.77	613.16
	02/24/22		21.98	611.95
	09/29/22		21.17	612.76
	04/21/23		20.39	613.54
MW-7	9/29/2022	632.47	21.37	611.10
	4/21/2023		20.94	611.53
MW-8	9/29/2022	628.91	20.06	608.85
	4/21/2023		19.23	609.68

TABLE A.2
GROUNDWATER ELEVATION DATA

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well ID	Date	TOC	Depth to Water	Groundwater Elevation
MW-9	9/29/2022	625.98	15.82	610.16
	4/21/2023		14.98	611.00
MW-10	9/29/2022	628.27	15.97	612.30
	4/21/2023		15.14	613.13
MW-1D	9/29/2022	634.00	21.00	613.00
	4/21/2023		20.25	613.75

TABLE A.5
GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02
MW-1	19-29	01/31/17	570	5.2 J	<2.05	<1.75	<0.95
		04/20/17	187	82	29.1	91	<1.9
		05/30/18	267	35	51	62	<2
		11/26/18	540	<3	<3.7	<3.4	<2
		02/23/22	142	0.72 J	<0.32	<0.5	<0.15
		09/30/22	353	<1.6	<2.4	<2.6	<0.87
		DUP 9/30	370	<1.6	<2.4	<2.6	<0.87
		04/23/23	64.1	< 0.190	22.6	9.85	< 0.234
	DUP 4/23	72.3	<3.8	40.5	16.1	<4.68	
MW-1D	45.13-50.13	9/30/2022	2.4	0.64 J	1.2	<0.53	<0.17
		4/24/2023	0.616 J	1.27	0.356 J	< 0.497	<0.234
MW-2	14.5-24.5	01/31/17	70	52	1.94	0.66	<0.19
		04/20/17	40	53	4.8	1.22	0.23 J
		05/30/18	59	35	5.4	1.11	0.28 J
		11/26/18	125	34	3.08	0.75	<0.2
		02/25/22	60	64	7.2	5.2	<0.15
		09/30/22	42.5	67.5	3.0	1.9	<0.17
		04/23/23	58.6	39.6	1.57	1.13	<0.234
MW-3	20-30	01/31/17	213	106	4.9	5.3	<0.19
		04/20/17	107	118	<4.1	4.2	<1.9
		05/30/18	81	110	<3.7	<3.4	<2
		11/26/18	293	7.3 J	<3.7	<3.4	<2
		02/23/22	147	88	7.5	7.5	0.34 J
		09/30/22	196	10.4	<0.94	<1.1	<0.35
		04/23/23	6.28 J	16.4	32.4	<9.93	<4.68
MW-4	17-32	01/31/17	31.1	<0.45	<0.41	<0.35	<0.19
		04/20/17	45	<0.45	<0.41	<0.35	<0.19
		05/30/18	93	0.76 J	1.07	1.02	<0.2
		11/26/18	96	1.91	1.59	1.97	<0.2
		10/31/19	85.5	2.2	<3.6	<4.4	<0.17
		01/30/20	65.7	1.8	1.3	<1.1	<0.17
		02/23/22	48	2.12	2.01	1.33 J	<0.15
		09/30/22	79.4	3.8	3.7	2.2	<0.17
	04/24/23	134	7.22	4.00	1.43	<0.234	

TABLE A.5
GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02
MW-5	18-28	01/31/17	16.4	16.4	26	54	<0.95
		04/20/17	13.4 J	9.2	24.4	62	<1.9
		05/30/18	<3.8	<3	85	4.1	<2
		11/26/18	3.8 J	<1.5	76	5.0	<1
		10/31/19	4.2 J	<1.3	79.7	10.6 J	<0.87
		01/30/20	1.9 J	<1.3	85.5	8.3 J	<0.87
		02/23/22	1.72 J	1.03 J	47	7.1	<0.15
		09/30/22	<4.1	<3.2	38.3	<5.3	<1.7
	04/23/23	0.588 J	< 0.633	21.8	1.63	<0.234	
MW-6	20-30	01/31/17	122	78	35	66	0.28 J
		04/20/17	126	79	41	73	0.55 J
		05/30/18	115	132	57	127	0.64 J
		11/26/18	55	93	45	89	0.44 J
		10/31/19	101	212	48.4	100	<0.70
		01/30/20	113	251	<14.5	<17.5	<0.70
		02/23/22	185	202	35	66	0.42 J
		09/29/22	51.8	174	31.4	49.3	<0.35
		04/24/23	67.7	134	30.4	50.1	0.578 J
MW-7	16.85-26.85	09/29/22	0.45 J	<0.32	<0.47	<0.53	<0.17
		04/24/23	0.745 J	<0.190	< 0.420	< 0.497	<0.234
MW-8	17.85-27.85	09/29/22	0.58 J	<0.32	<0.47	<0.53	<0.17
		04/24/23	0.315 J	<0.190	< 0.420	< 0.497	<0.234
MW-9	14.13-24.13	09/29/22	<0.41	<0.32	<0.47	<0.53	<0.17
		04/24/23	<0.300	<0.190	< 0.420	< 0.497	<0.234
MW-10	13.5-23.5	09/30/22	<0.41	<0.32	<0.47	<0.53	<0.17
		DUP 9/30	0.42 J	<0.32	<0.47	<0.53	<0.17
		04/23/23	0.403 J	<0.190	< 0.420	< 0.497	<0.234
		DUP 4/23	0.365 J	<0.190	< 0.370	< 0.393	<0.234

TABLE A.5
GROUNDWATER ANALYTICAL RESULTS

Former Econo Care Cleaners
1404 South Webster Avenue, Allouez, Wisconsin

Monitoring Well Sample ID	Screened Interval (feet bgs)	Date Sampled	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Enforcement Standard			5	5	70	100	0.2
Preventive Action Limit			0.5	0.5	7	20	0.02

Notes:

µg/L = micrograms per liter

Samples analyzed using EPA SW-846 Method 8260

Bolded values are above detection limits

Bolded and orange shaded values are above Public Health Enforcement Standards

Bolded and blue shaded values are above Public Health Preventive Action Limits

Samples/constituents not shown are below laboratory reporting limits

bgs = below ground surface

J = Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit

NS= Not Sampled

NR= Not Reported