Seymour
Environmental Services, Inc.

Tel: 608-838-9120

January 16, 2018

PECFA ID - 53563-1032-02

Ms. Cindy Koepke
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Madison, Wisconsin 53711

Re: Recent Groundwater Monitoring Results
Bob's Citgo
602 W. Madison Avenue - Milton, Wisconsin
BRRTS: 03-54-000193

Dear Ms. Koepke:

Seymour Environmental Services, Inc. is pleased to present the results of the recent groundwater monitoring. The recent groundwater monitoring results are discussed after a brief summary of previous findings.

SUMMARY OF PREVIOUS FINDINGS

This environmental investigation was initiated as part of a potential real estate transaction and because the site had an open Wisconsin Department of Natural Resources (WDNR) case number. The current owner, Robert Richardson, was told that a spill had occurred but had been dealt with at the time of discovery. This issue resurfaced with the prospect of transferring the property in 2005.

On August 24, 2005 Seymour conducted soil sampling around the tank system including the dispensers. Soil samples collected from the borings were analyzed for gasoline range organics (GRO), diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), and lead. Contaminants present at levels that exceed the RCL included benzene, ethylbenzene, MTBE, toluene, trimethylbenzenes, xylenes and naphthalene.

Since significant soil contamination was identified a groundwater monitoring network of 6 wells was installed between October 2010 and September 2011. Data from those monitoring wells indicated that groundwater flow is toward the west. Sampling showed that groundwater at all six wells contained compounds present above the ES. The most widespread contaminant was MTBE, which was present above the limit of detection in all of the wells.

In August 2013 four additional monitoring wells were installed at the site to further delimit the extent of groundwater contamination. Since the wells had not been sampled in two years a sampling round was conducted prior to the well installation to see if anything has changed significantly. Three of the wells were installed to the south and west of the existing monitoring network and one well (MW-10) was installed in the upgradient direction (east). Groundwater monitoring data showed that petroleum impacted groundwater extends westward from the site to Division Street which is ~ 400 feet west. No petroleum contamination was present in the groundwater at MW-10 which is east of the site.

Based on the groundwater sampling from the entire well network at the site a report was prepared and submitted to the WDNR. In response to the report the WDNR requested that additional work be conducted at the site. Specifically, the work requested included conducting additional groundwater monitoring and vapor sampling to evaluate the vapor migration potential in the building at the site.

ADDITIONAL ENVIRONMENTAL ACTIVITIES

May 2015 Groundwater Monitoring

On May 28, 2015 another round of groundwater monitoring was conducted. Free-phase product was present at one well, MW-2. The apparent product thickness was 0.68 feet. The water level data showed that water-table on the subject parcel, particularly in MW-2, was significantly higher than on the surrounding properties. Monitoring data from May 2015 is shown on Figure 1.

Groundwater chemistry data confirms that petroleum-related contamination originating at the site extended to the west approximately 400 feet. The highest contaminant levels were present in the groundwater in the monitoring wells on the subject property (MW-1 to MW-3). One of these wells, MW-2, is located on the east side of the tank bed and has consistently contained free-phase product. In addition to the monitoring wells located on the subject property MW-5 contained numerous PVOCs above the NR140 groundwater quality standards.

Limited contamination exceeding NR140 standards was noted in the remaining six monitoring wells. Benzene exceeded the ES in groundwater at MW-7 and the PAL at MW-8; these wells are located along Division Street ~ 400 feet west of the site. The MTBE level exceeded the ES in groundwater at MW-4 and MW-7. No PVOCs were detected in the groundwater samples collected from MW-6 and MW-9 located to the west of the site and south of Madison Avenue. No PVOCs were detected in the groundwater at MW-10 which is located on the north side of Madison Avenue ~80 feet east of the site.

Vapor Migration Sampling

Vapor migration sampling was conducted at the site in June 2015, March and June 2016. Sampling included collection of sub-slab samples beneath the building on the subject parcel as well as indoor and outdoor air samples. Low levels of five VOCs have been detected in the sub-slab vapors beneath the building including acetone, tetrachloroethene, methyl ethyl ketone, dichlorofluoromethane, and trichlorofluoromethane. These compounds are typical of cleaning products (degreasers), and/or refrigerants. All concentrations of the compounds detected were below the indoor air standard listed by the WDNR or the USEPA. No petroleum-related contamination was detected in the sub-slab vapors although they were present in the ambient air samples collected in June 2015. Based on this we believe that hazardous levels of vapors are not accumulating beneath the building.

RECENT GROUNDWATER SAMPLING

Seymour discussed the site with Wendell Wojner earlier in 2017 after Shawn Wenzel left the WDNR to determine the next steps to be taken. Mr. Wojner requested that we conduct two more rounds of groundwater monitoring. These were conducted in June and October 2017.

June 2017

Seymour went to the site on June 24, 2017 to conduct the first round of the additional sampling. Free-phase product was present at one well, MW-2. The apparent product thickness was 0.75 feet. The water level data showed that water-table on the subject parcel, particularly in MW-2, was significantly higher

than on the surrounding properties. The groundwater flow during this event radiated from the site toward the south, more to the southwest to the west and slightly southeast to the east. The data from this sampling round is shown on Figure 2. The groundwater analytical results are summarized on Table 1.

Groundwater chemistry data confirms that petroleum-related contamination exceeding the ES extended to the west to MW-7. The highest contaminant levels were again present in the groundwater at MW-1, which is located immediately to the northwest of the tank basin. Very high levels of PVOCs also were present in the other two monitoring wells on the subject property (MW-2 and MW-3). Monitoring well MW-5 located on the Milton Fire Department property approximately 200 feet west of the tank bed no longer had any compounds present above the ES for the first time. Both MW-6 and MW-7 had their highest concentrations of benzene during this sampling event. The other petroleum compounds were also detected at much higher levels than previous sampling events in MW-6. The concentrations of benzene increased in MW-7 but the other petroleum compounds did not exhibit the same change and the MTBE showed a decrease.

No contamination exceeding NR140 standards was noted in the remaining four monitoring wells, MW-4, MW-8, MW-9 or MW-10. Monitoring well MW-4 has only ever had MTBE present, during this round it was only present above the limit of detection. Several low level PVOCs were present in MW-8, but only benzene was present above the PAL. No PVOCs were detected in the groundwater samples collected from MW-9 located to the west of the site or MW-10 which is located east of the site.

October 2017

Seymour went to the site on October 23, 2017 to conduct the additional groundwater sampling. Free-phase product was present at MW-2 with an apparent product thickness 0.1 feet, the lowest measurement since the free product was detected. The water level data again showed that the water-table on the subject parcel, particularly in MW-2, was significantly higher than on the surrounding properties. The groundwater flow during this event ranged from slightly north of west on the western edge of the network to south on the east side. The data from this sampling round is shown on Figure 3.

Groundwater chemistry data showed that the petroleum-related contamination exceeding the ES were only present in the three onsite monitoring wells and MW-6 to the southwest. The highest contaminant levels were present in the groundwater at MW-1. Very high levels of PVOCs also were present in the other two monitoring wells on the subject property (MW-2 and MW-3). Monitoring well MW-5 which had very high concentrations of petroleum contamination during the first four sampling events had no exceedances for the second time, a single compound, naphthalene was detected at a very low level. MW-6 again had benzene present above the ES but the level was much lower than the June sampling event and the other compounds were all below the ES this time.

No contamination exceeding the NR140 ES was noted in the remaining five monitoring wells, MW-4, and MW-7 through MW-10. Monitoring well MW-4 had MTBE above the PAL. Several low level PVOCs were present in MW-8. Again, no PVOCs were detected in the groundwater samples collected from MW-9 or MW-10.

CONCLUSIONS AND RECOMMENDATIONS

The measured water-level variation across the monitoring network is inconsistent with the relatively high conductivity materials in the aquifer. It appears that a "perched" area of saturated conditions exist in the area of the tank bed, particularly near MW-2.

Groundwater containing petroleum-related VOCs in excess of NR140 ES originates at the subject parcel and previously extended to the west to the limit of the monitoring network (over 400 feet). At the most downgradient well, MW-7, benzene and MTBE were present in the groundwater at concentrations exceeding the ES. The concentrations of each of these compounds were lower in the May 2015 sampling than in the initial sampling conducted in September 2013. The highest benzene level in MW-7 was present in the June 2017 event, with MTBE still present above the ES. The results of the October 2017 sampling event show no detectable compounds present in MW-7. The groundwater analytical results in MW-5 also showed a significant decrease in contaminant levels from well over the ES to below the detection limit. Monitoring well MW-6 had had very "noisy" results. No obvious trends in the groundwater quality data were observed during inspection of time vs concentration graphs which are attached.

Once you have had a chance to review this data please call us to discuss the next steps to getting this site to closure. The approved PECFA budget has been expended so we will need to prepare a budget request to cover our planned activities.

Thank you for your attention to this project. Please call me at 608-838-9120 if you have any questions or would like additional information.

Sincerely,
Seymour Environmental Services, Inc.

Robyn Seymour, P.G.
Hydrogeologist

TABLES
1 – Summary of Well Construction Information and Water Level Data
2 – Summary of Groundwater Monitoring Data

FIGURES
1 - Groundwater Monitoring Data (May 2015)
2 - Groundwater Monitoring Data (June 2017)
3 - Groundwater Monitoring Data (October 2017)

TREND GRAPHS
LABORATORY REPORTS

TABLE 1 - (page 1 of 2)
SUMMARY OF WELL CONSRUCTION INFORMATION AND WATER LEVEL DATA
Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

WELL CONSTRUCTION DETAILS						
Well	Date Installed	TOC Elevation	Well Depth	Screen Length	Top of Screen Elevation	Base of Screen Elevation
MW-1	10/25/2010	874.49	62.55	15	821.94	811.94
MW-2	2/23/2011	873.96	61.99	15	821.97	811.97
MW-3	2/23/2011	875.05	63.05	15	822.00	812.00
MW-4	9/6/2011	874.60	63.50	15	826.10	811.10
MW-5	9/7/2011	875.20	63.18	15	827.02	812.02
MW-6	9/7/2011	874.80	64.08	15	825.72	810.72
MW-7	8/20/2013	875.26	69.65	15	820.61	805.61
MW-8	8/21/2013	878.45	73.35	15	820.10	805.10
MW-9	8/22/2013	874.57	66.75	15	822.82	807.82
MW-10	8/23/2013	876.68	69.15	15	822.53	807.53

- All data is listed in feet
- Elevation data is listed in feet above mean sea level

TABLE 1 - (page 2 of 2)
SUMMARY OF WELL CONSRUCTION INFORMATION AND WATER LEVEL DATA
Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

GROUNDWATER LEVEL DATA

Date	11/4/10			3/3/11			9/15/11			8/15/13		
Well	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation
MW-1	53.15	--	821.34	53.92	--	820.57	54.85		819.64	55.92	--	818.57
MW-2	ni	ni	ni	51.18	0	822.78	59.17	>3.00	814.79*	51.30	>3.00	822.66*
MW-3	ni	ni	ni	54.02	--	821.03	54.67	--	820.38	52.68	--	822.37
MW-4	ni	ni	ni	ni	ni	ni	55.90	--	818.70	57.45	--	817.15
MW-5	ni	ni	ni	ni	ni	ni	57.85	--	817.35	60.77	--	814.43
MW-6	ni	ni	ni	ni	ni	ni	57.06	--	817.74	59.14	--	815.66
MW-7	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni
MW-8	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni
MW-9	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni
MW-10	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni
Date	9/11/13			5/28/15			6/24/17			10/23/17		
Well	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation	GW Depth	Product	GW Elevation
MW-1	55.16	--	819.33	57.51	--	816.98	53.78	--	820.71	54.65	--	819.84
MW-2	48.01	0.84	826.12	50.25	0.68	823.85	48.35	0.75	825.76	46.36	0.10	827.62
MW-3	52.06	sheen	822.99	55.51	sheen	819.54	53.81	sheen	821.24	51.78	sheen	823.27
MW-4	57.10	--	817.50	58.95	--	815.65	52.91	--	821.69	56.2	--	818.40
MW-5	60.23	--	814.97	62.76	--	812.44	56.86	--	818.34	58.59	--	816.61
MW-6	58.77	--	816.03	60.84	--	813.96	59.16	--	815.64	57.49	--	817.31
MW-7	60.86	--	814.40	63.54	--	811.72	61.03	--	814.23	59.08	--	816.18
MW-8	64.39	--	814.06	67.17	--	811.28	64.72	--	813.73	62.75	--	815.70
MW-9	59.61	--	814.96	61.91	--	812.66	60.29	--	814.28	58.05	--	816.52
MW-10	61.29	--	815.39	64.56	--	812.12	62.24	--	814.44	59.57	--	817.11

- All data is listed in feet
- Elevation data is listed in feet above mean sea level

* = greater than 3 feet product noted (elevation not corrected)

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA (page 1 of 4)
Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

Sample I.D.	DATE	Benzene	1,2 Dichloroethane	Ethylbenzene	Methyl-tert-butyl ether	Toluene	Total Trimethylbenzene	Total Xylenes	Naphthalene	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	p-Isopropyltoluene	Methylene Chloride	Chloromethane
MW-1	11/04/10	**6950**	<72.0	**2380**	**912**	**17000**	**1564**	**11140**	**426**	<178	<118	<162	<134	<86.0	<48.0
	03/03/11	**8700**	<72.0	**2810**	**914**	**18300**	**2136**	**13650**	**478**	<178	<118	208	<134	**113***	<48.0
	09/15/11	**7550**	na	**2540**	**867**	**15300**	**2153**	**12160**	**640**	na	na	na	na	na	na
	08/15/13	**6600**	na	**2630**	**302**	**15600**	**2226**	**11890**	**663**	na	na	na	na	na	na
	09/11/13	**5170**	<47.6	**2230**	**184**	**13200**	**1889**	**10300**	**525**	<60.5	73.6	185	<39.7	<35.9	<38.8
	05/28/15	**5620**	na	**2060**	**160**	**12800**	**1854**	**9360**	**567**	na	na	na	na	na	na
	06/24/17	**6970**	na	**2980**	**390**	**17100**	**2224**	**12880**	**734**	na	na	na	na	na	na
	10/23/17	**5170**	na	**2940**	**222**	**14000**	**2324**	**13170**	**711**	na	na	na	na	na	na
MW-2	03/03/11	**5260**	<36.0	**3270**	**284**	**11100**	**2887**	**15270**	**529**	<89.0	101	294	<67.0	**66.5***	<24.0
	09/15/11	**4760**	na	**3720**	**280**	**10900**	**3238**	**16550**	**891**	na	na	na	na	na	na
	08/15/13	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/11/13	**1810**	<9.5	**2930**	**37.3**	**2660**	**3155**	**11020**	**828**	19.6J*	150	406	11.3	<7.2	<7.8
	05/28/15	**2020**	na	**3400**	**49.6**	**2560**	**3843**	**14150**	**826**	na	na	na	na	na	na
	06/24/17	**2310**	na	**3300**	**60.6 J**	**480**	**5160**	**12950**	**1560**	na	na	na	na	na	na
	10/23/17	**1080**	na	**2310**	<24.2	**204**	**4055**	**8640**	**928**	na	na	na	na	na	na
MW-3	03/03/11	**3150**	<45.0	**3230**	<76.2	**10500**	**2888**	**14130**	**589**	<111	105	284	<83.8	**65.6***	<30.0
	09/15/11	**2670**	na	**2610**	**74.3**	**6420**	**2932**	**10660**	**680**	na	na	na	na	na	na
	08/15/13	**2290**	na	**3760**	**562**	**1750**	**3411**	**15650**	**926**	na	na	na	na	na	na
	09/11/13	**2290**	<11.9	**2580**	**532**	**1120**	**2393**	**11030**	**684**	<15.1	93.3	230	<9.9	<9.0	<9.7
	05/28/15	**1360**	na	**3040**	<24.2	**719**	**3342**	**12610**	**831**	na	na	na	na	na	na
	06/24/17	**1100**	na	**2900**	28.6 J	**68.3**	**3063**	**9208**	**743**	na	na	na	na	na	na
	10/23/17	**1760**	na	**2730**	58.3 J	**163**	**3515**	**9630**	**884**	na	na	na	na	na	na
NR140	ES	5	5	700	60	800	480	2000	100	ns	ns	ns	ns	5	30
	PAL	0.5	0.5	140	12	160	96	400	10	ns	ns	ns	ns	0.5	3

- All results are listed in ug/l
- na = not analyzed
- ns = no standard established
- * = May be laboratory contaminant
- J = estimated concentration below quantitation limit
- NR140 PAL = Preventative Action Limit (exceedances italicized)
- NR140 ES = Enforcement Standard (exceedances bold)
- (1) = Lab flagged sample for insufficient preservation pH
- (2) = Lab flagged sample for headspace in sample

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA (page 2 of 4)
Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

Sample I.D.	DATE	Benzene	1,2 Dichloroethane	Ethylbenzene	Methyl-tert-butyl ether	Toluene	Total Trimethylbenzene	Total Xylenes	Naphthalene	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	p-Isopropyltoluene	Methylene Chloride	Chloromethane
MW-4	09/15/11	<0.41	*2.3*	<0.54	**154**	<0.67	<1.80	<2.63	<0.89	<0.89	<0.59	<0.81	<0.67	<0.43	0.33
	08/15/13	<0.34	na	<0.34	**210**	<0.34	<0.69	<1.03	<0.37	na	na	na	na	na	na
	09/11/13	<0.50	*1.0*	<0.50	**154**	<0.44	<1.00	<1.32	<2.5	<0.60	1.4	<0.50	<0.40	<0.36	<0.39
	05/28/15	<0.40	na	<0.39	**95.0**	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	06/24/17	<0.40	na	<0.39	0.68 J	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	10/23/17	<0.40	na	<0.39	*21.7*	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
MW-5	09/15/11	**623**	<1.8	58.5	**776**	6.3	<9.0	271	<4.4	<4.4	<3.0	<4.0	<3.4	<2.2	<1.2
	08/15/13	**3930**	na	**1330**	**270**	**969**	**486**	**2890**	**307**	na	na	na	na	na	na
	09/11/13	**3220**	<19.1	**1080**	**216**	**737**	**338.8**	**2152**	**209**	<24.2	36.6	78.3	<15.9	<14.3	<15.5
	05/28/15	**2170**	na	**917**	**105**	**1690**	**900**	**3920**	**275**	na	na	na	na	na	na
	06/24/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	10/23/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	2.6	na	na	na	na	na	na
MW-6	09/15/11	**289**	<0.36	75.6	*53.8*	1.7	27.2	6.9	*19.2*	<0.89	7.3	7.3	<0.67	<0.43	<0.24
	08/15/13	*4.1*	na	1.2	5.3	<0.34	<0.69	<1.03	<0.37	na	na	na	na	na	na
	09/11/13	**208**	<0.95	121	3.2	11.3	35.0	162.1	*20.0*	<1.2	6.5	13.1	<0.79	<0.72	<0.78
	05/28/15	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	06/24/17	**1060**	na	**1360**	**109**	**166**	**870**	**3164**	**354**	na	na	na	na	na	na
	10/23/17	**103**	na	98.7	4.1	7.9	65.3	160	22.2	na	na	na	na	na	na
MW-7	09/11/13	**56.6**	*1.1*	<0.50	**125**	<0.44	<1.00	<1.32	<2.5	<0.60	<0.34	<0.50	<0.40	<0.36	<0.39
	05/28/15	**18.8**	na	1.3	**126**	<0.39	<0.84	5.2	1.7	na	na	na	na	na	na
	06/24/17 (2)	**244**	na	8.2	**96.9**	3.2	<1.67	3.0	2.7	na	na	na	na	na	na
	10/23/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
NR140	ES	5	5	700	60	800	480	2000	100	ns	ns	ns	ns	5	30
	PAL	0.5	0.5	140	12	160	96	400	10	ns	ns	ns	ns	0.5	3

- All results are listed in ug/l
- na = not analyzed
- ns = no standard established
- * = May be laboratory contaminant
- J = estimated concentration below quantitation limit
- NR140 PAL = Preventative Action Limit (exceedances italicized)
- NR140 ES = Enforcement Standard (exceedances bold)
- (1) = Lab flagged sample for insufficient preservation pH
- (2) = Lab flagged sample for headspace in sample

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA (page 3 of 4)
Former Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

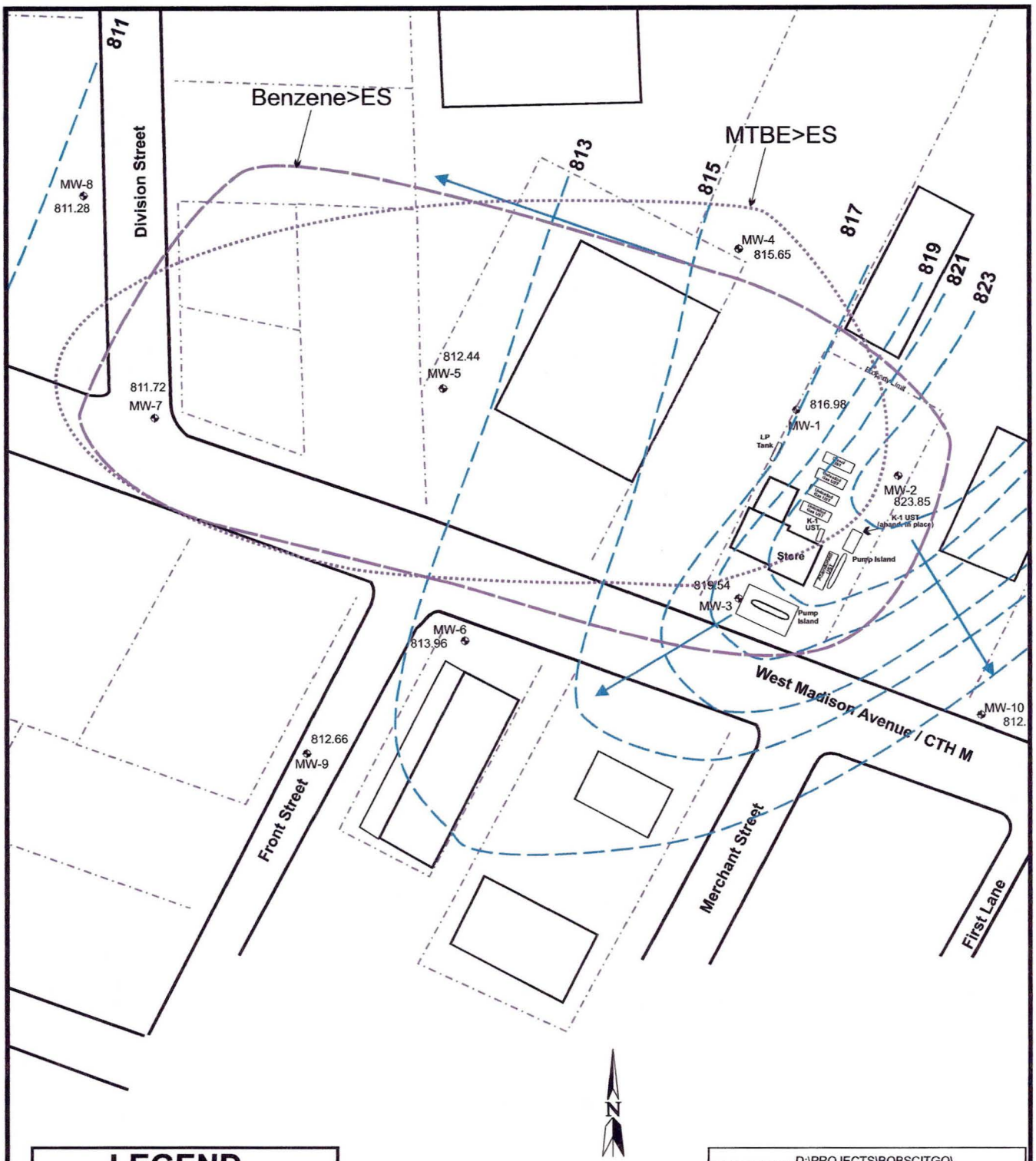
Sample I.D.	DATE	Benzene	1,2 Dichloroethane	Ethylbenzene	Methyl-tert-butyl ether	Toluene	Total Trimethylbenzene	Total Xylenes	Naphthalene	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	p-Isopropyltoluene	Methylene Chloride	Chloromethane
MW-8	09/11/13	**12.8**	<0.48	<0.50	4.3	<0.44	<1.00	<1.32	<2.5	<0.60	<0.34	<0.50	<0.40	<0.36	<0.39
	05/28/15	*0.75* J	na	<0.39	10.3	<0.39	1.6	<1.25	0.67 J	na	na	na	na	na	na
	06/24/17	*2.1*	na	12.2	2.3	0.44 J	<0.84	3.0	14.4	na	na	na	na	na	na
	10/23/17	<0.40	na	<0.39	2.9	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
MW-9	09/11/13	<0.50	<0.48	<0.50	1.1	<0.44	<1.00	<1.32	<2.5	<0.60	<0.34	<0.50	<0.40	<0.36	<0.39
	05/28/15	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	06/24/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	10/23/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
MW-10	09/11/13	<0.50	<0.48	<0.50	<0.49	<0.44	<1.00	<1.32	<2.5	<0.60	<0.34	<0.50	<0.40	<0.36	<0.39
	05/28/15	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	06/24/17	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
	10/23/17 (1) (2)	<0.40	na	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	na	na	na	na	na	na
NR140	ES	5	5	700	60	800	480	2000	100	ns	ns	ns	ns	5	30
	PAL	0.5	0.5	140	12	160	96	400	10	ns	ns	ns	ns	0.5	3

- All results are listed in ug/l
- na = not analyzed
- ns = no standard established
- * = May be laboratory contaminant
- J = estimated concentration below quantitation limit
- NR140 PAL = Preventative Action Limit (exceedances italicized)
- NR140 ES = Enforcement Standard (exceedances bold)
- (1) = Lab flagged sample for insufficient preservation pH
- (2) = Lab flagged sample for headspace in sample

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA (page 4 of 4)
Former Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

Sample I.D.	DATE	Acenaphthrene	Acenaphthalyene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	11/04/10	0.12	<0.076	<0.12	<0.077	<0.061	<0.072	<0.10	<0.093	<0.099	<0.074	<0.068	<0.093	<0.10	97.6	51.2	**489**	<0.17	<0.10
	03/03/11	<0.45	<0.36	<0.57	<0.36	<0.29	<0.34	<0.48	<0.44	<0.47	<0.35	<0.32	<0.44	<0.48	128	79.4	**527**	<0.81	<0.47
	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-2	03/03/11	0.61	0.33	0.20	0.073	*0.020*	*0.022*	0.031	0.013	0.0088	***0.047***	0.0042	0.13	0.76	304	160	**750**	<8.1	0.26
	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-3	03/03/11	<0.45	<0.36	<0.57	<0.36	<0.29	<0.34	<0.48	<0.44	<0.47	<0.35	<0.32	<0.44	<0.48	191	106	**597**	<0.81	<0.47
	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-4	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-5	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-6	09/15/11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
NR140	ES	ns	ns	3000	ns	0.2	0.2	ns	ns	ns	0.2	ns	400	400	ns	ns	100	ns	250
	PAL	ns	ns	600	ns	0.02	0.02	ns	ns	ns	0.02	ns	80	80	ns	ns	10	ns	50

- All results are listed in ug/l
- na = not analyzed
- ns = no standard established
- NR140 PAL = Preventative Action Limit (exceedances italicized)
- NR140 ES = Enforcement Standard (exceedances bold)



LEGEND

MW-1 - Monitoring Well

0 80' 160'

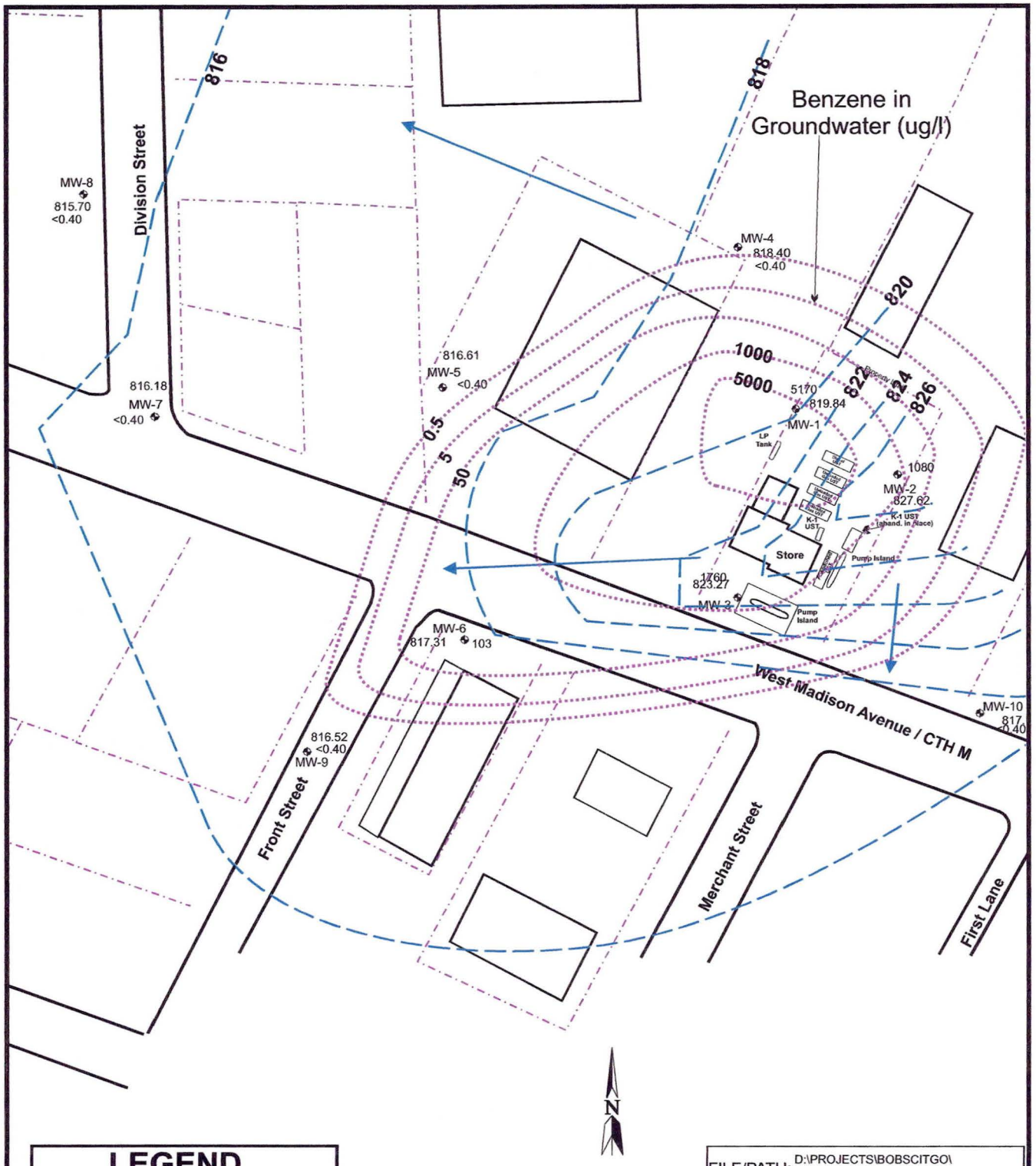
1 INCH = 80 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\Bob's-basemap.cdr
DATE: 07/21/2015
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

MONITORING DATA (May 2015)
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE 1



LEGEND

MW-1 - Monitoring Well

0 80' 160'

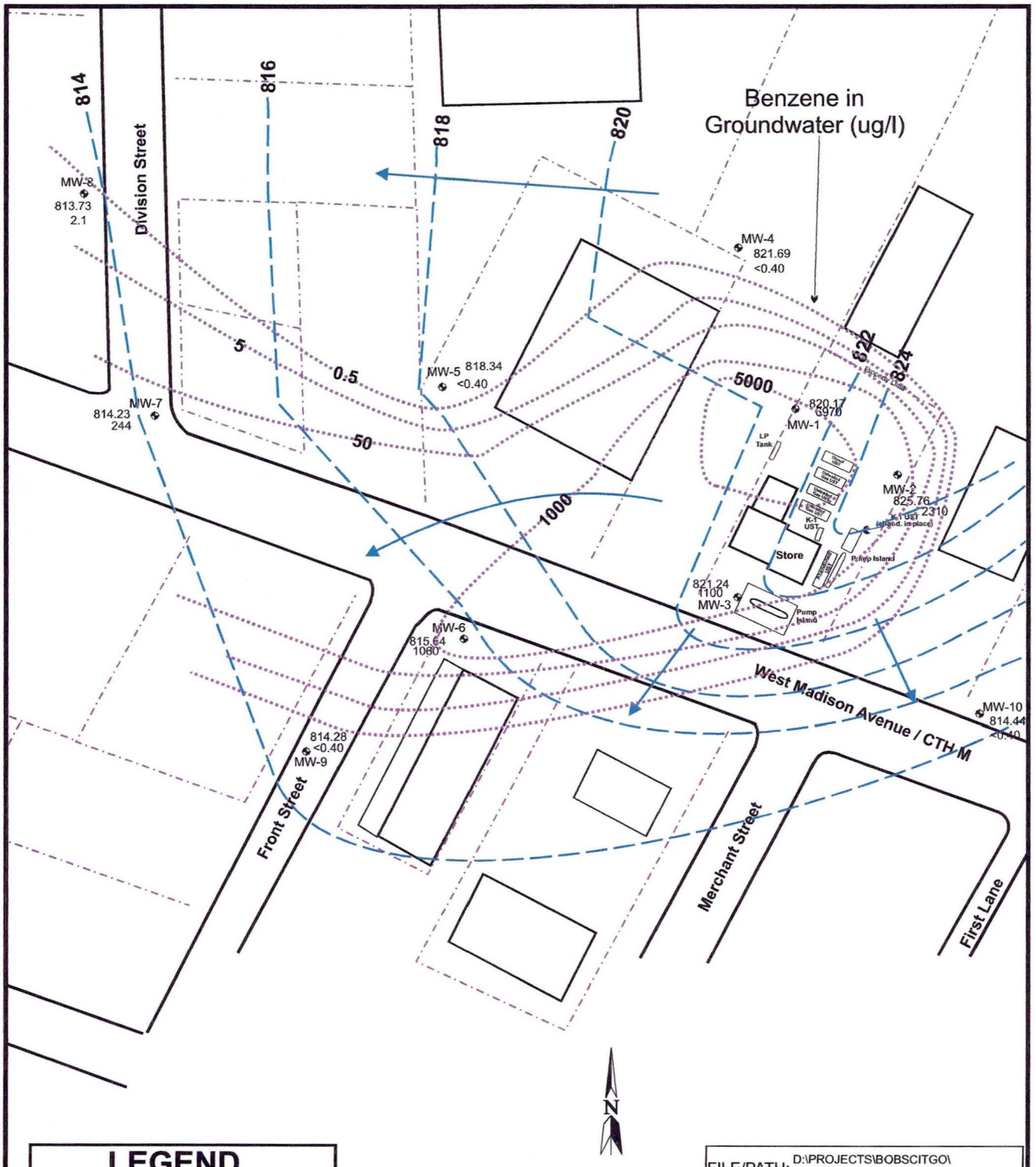
1 INCH = 80 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\Bob's-basemap.cdr
DATE: 01/11/2018
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

MONITORING DATA (Oct. 2017)
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE 3

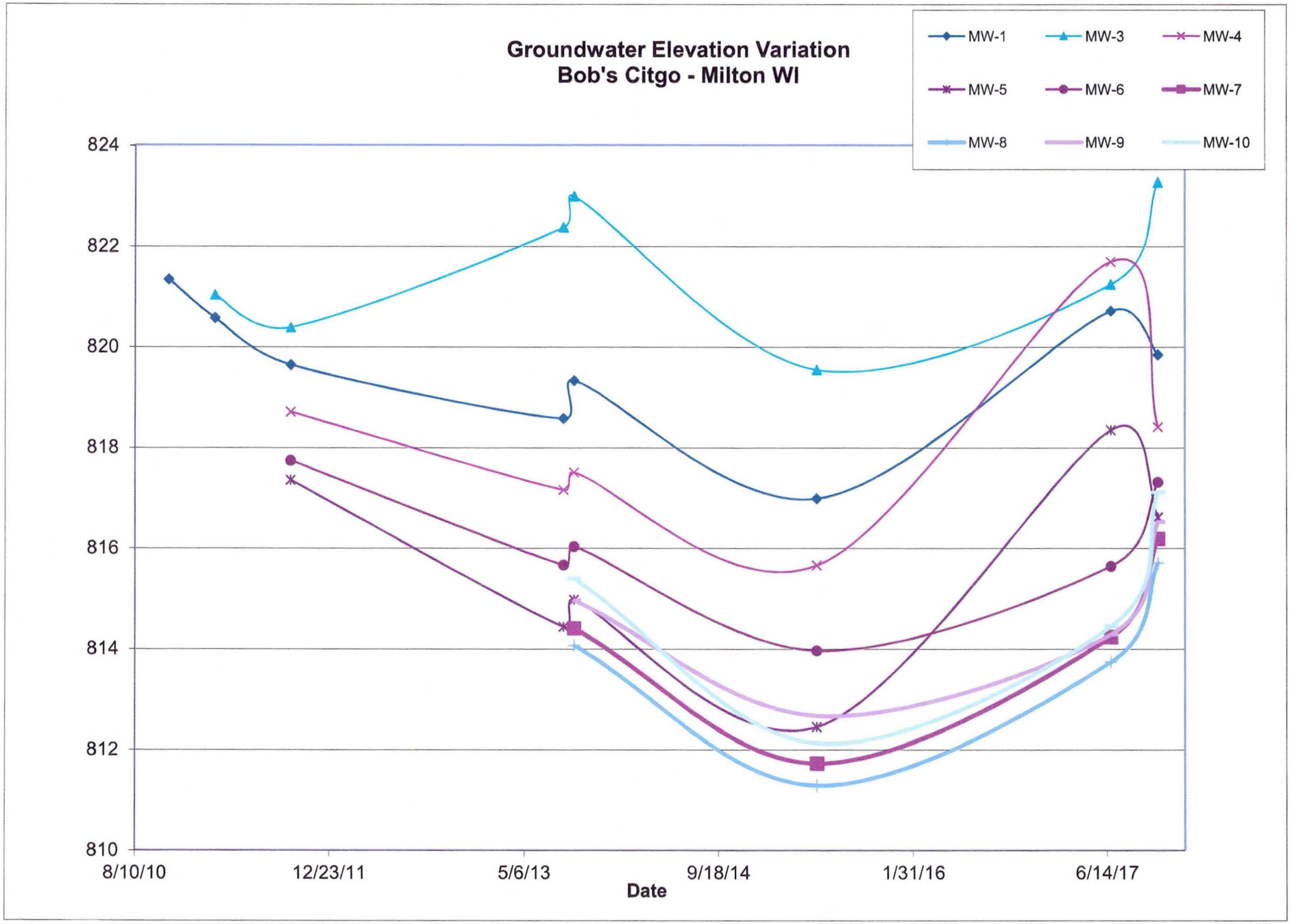


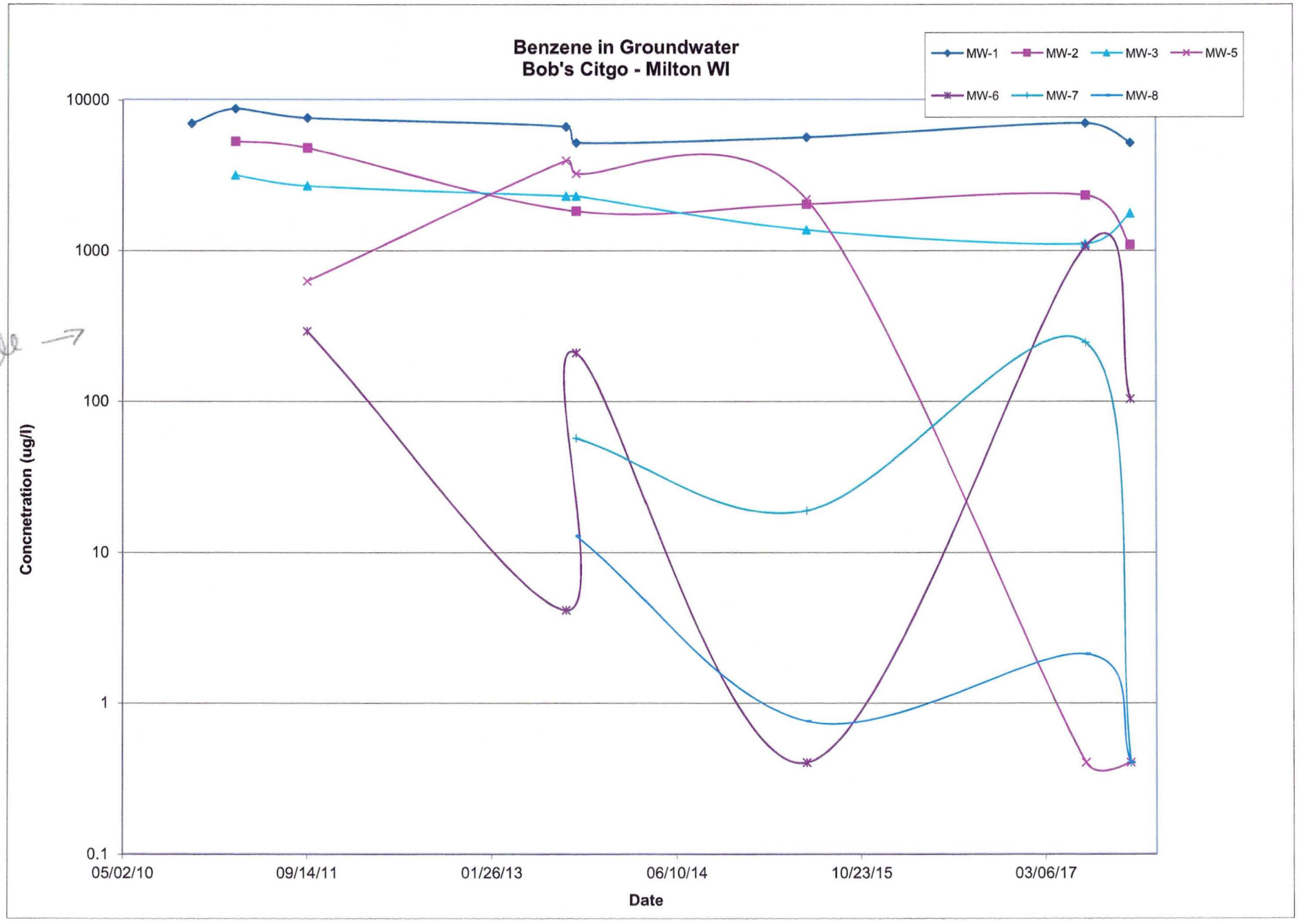
LEGEND

MW-1 - Monitoring Well

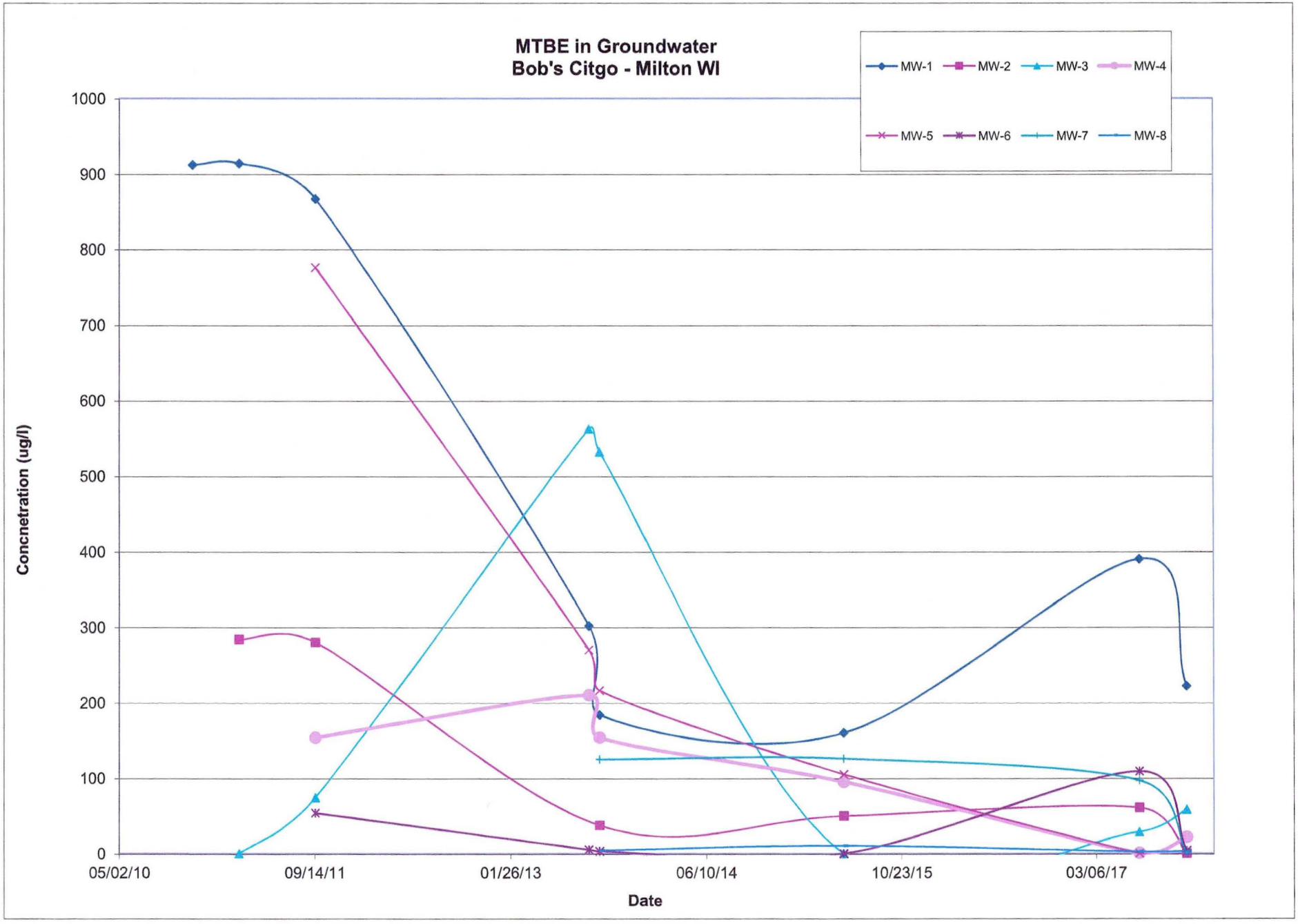
FILE/PATH: D:\PROJECTS\BOBSCITGO\Bob's-basemap.cdr
DATE: 01/11/2018
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

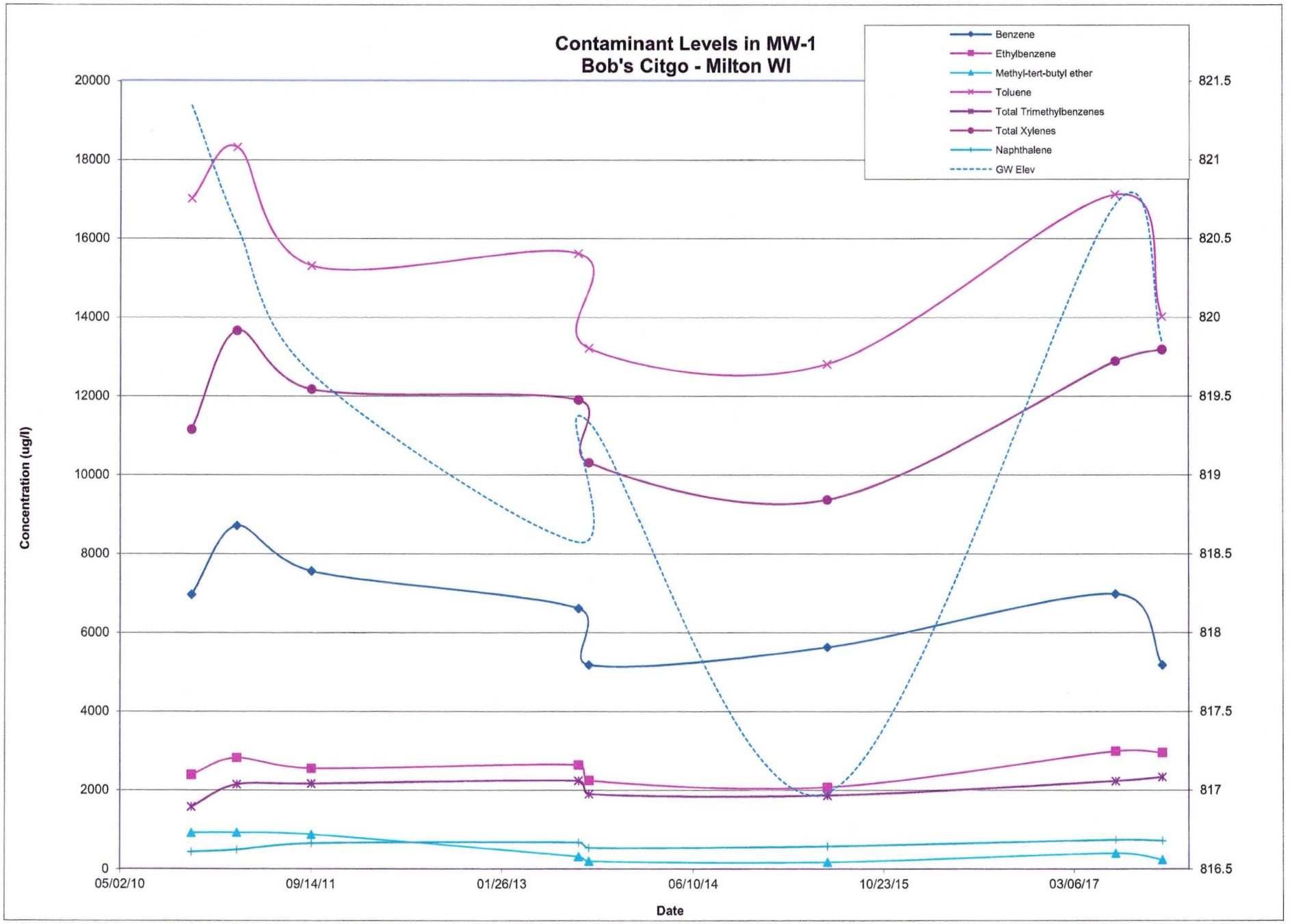
SEYMOUR ENVIRONMENTAL SERVICES, INC.	MONITORING DATA (June 2017) Bob's Citgo 602 W. Madison Avenue Milton, Wisconsin	FIGURE 2

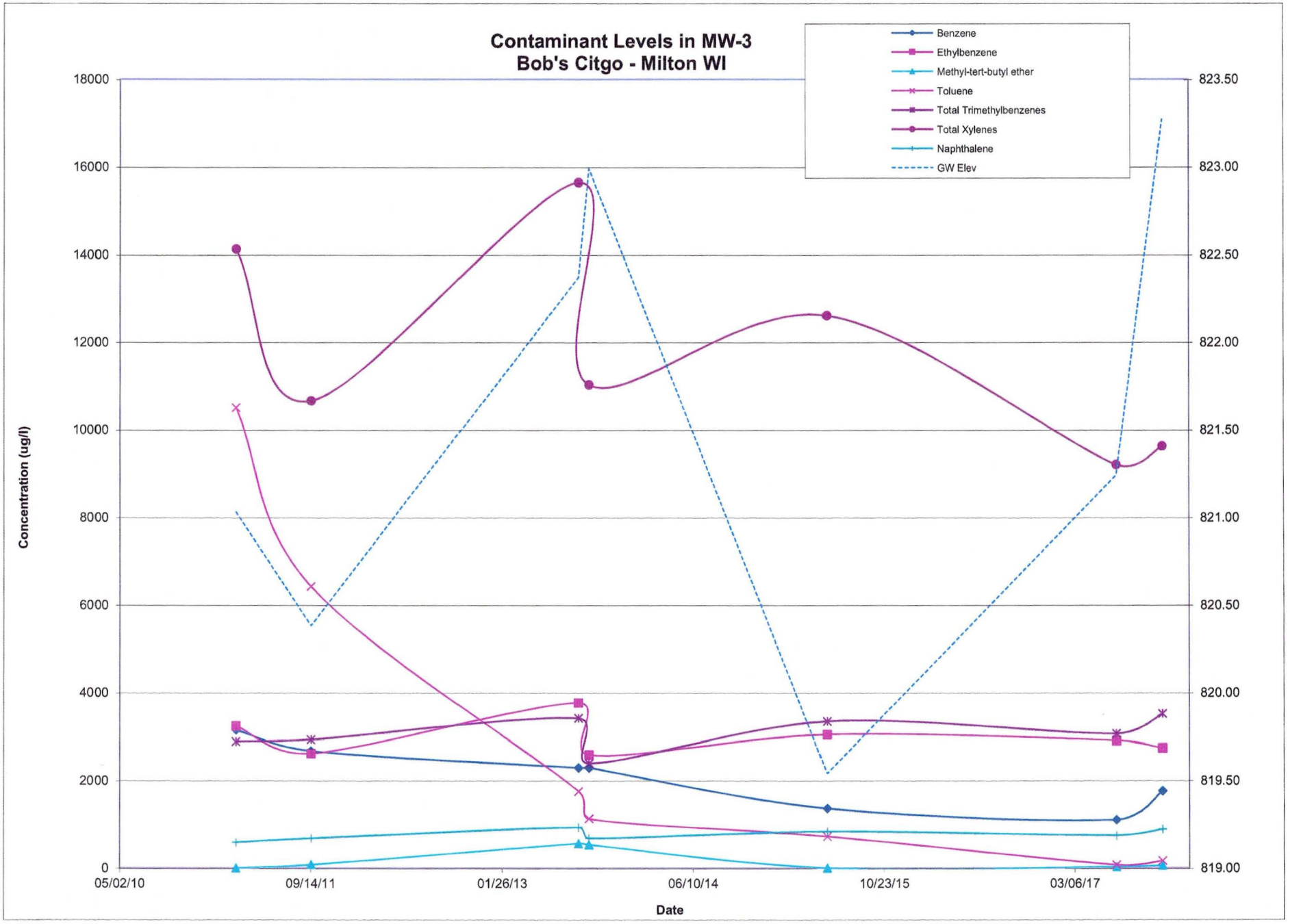

Groundwater Elevation Variation
Bob's Citgo - Milton WI
MW-1
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
824
822
820
818
816
814
812
810
8/10/10
12/23/11
5/6/13
9/18/14
1/31/16
6/14/17
Date

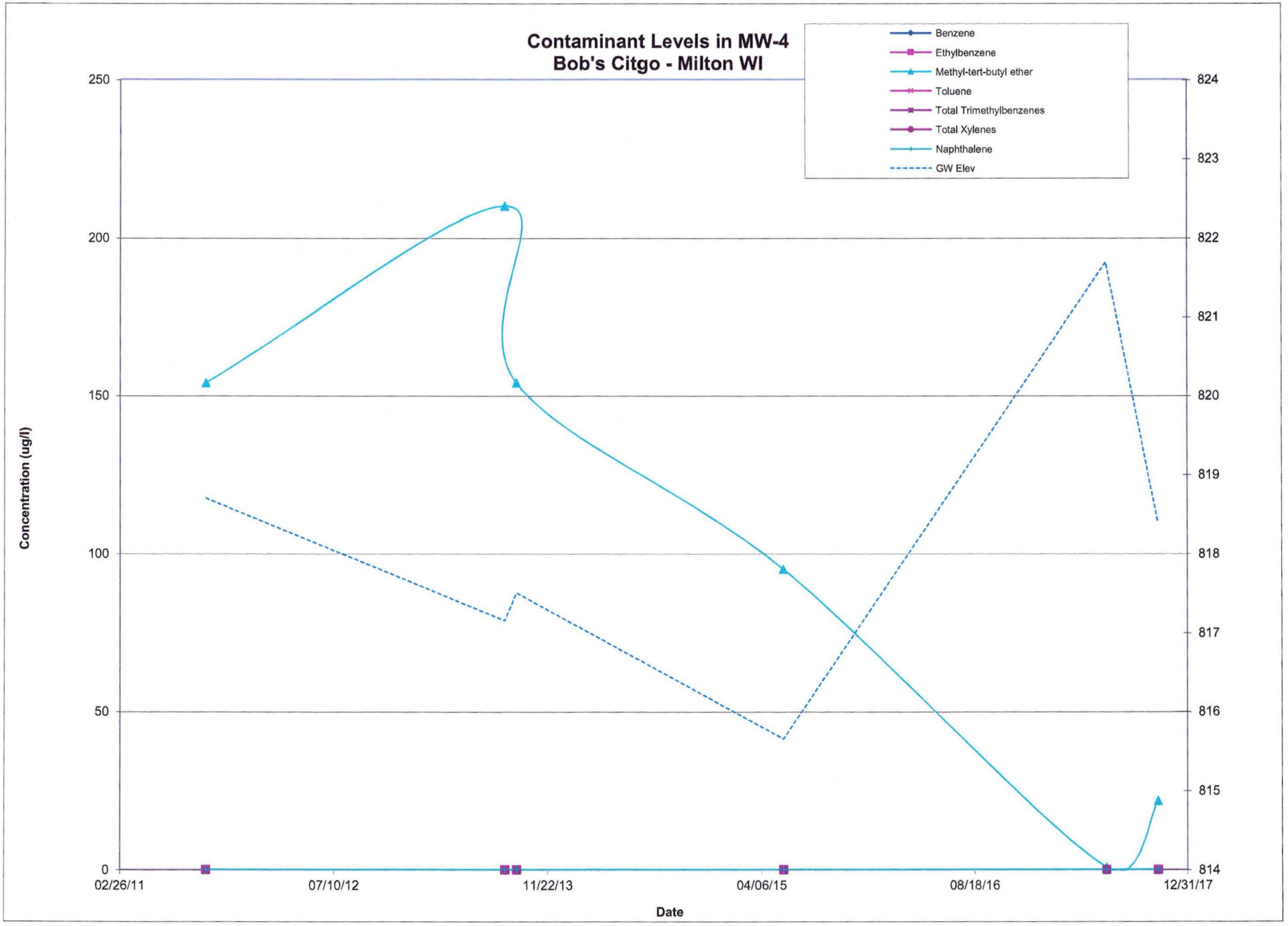


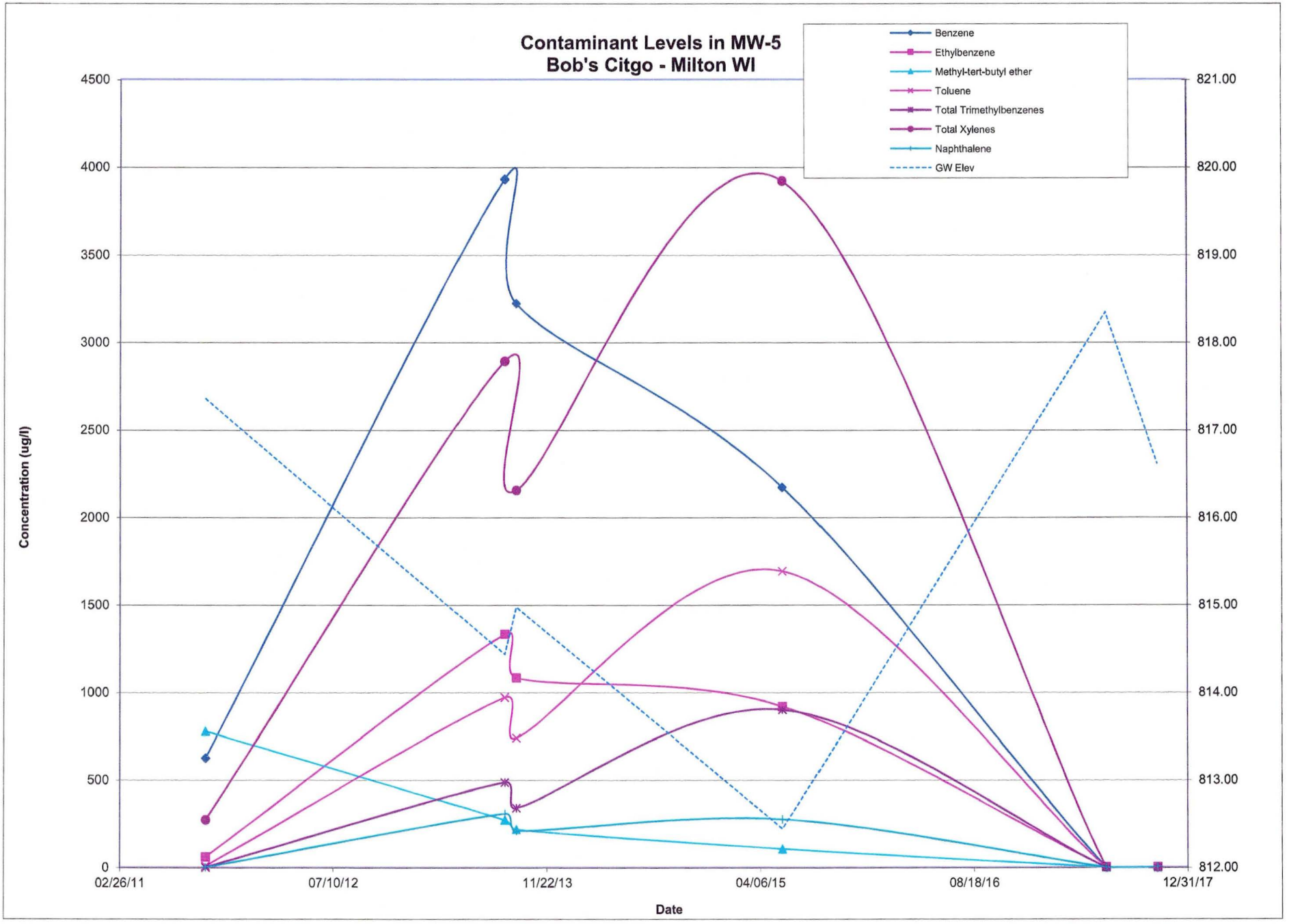
NOTE: log scale →

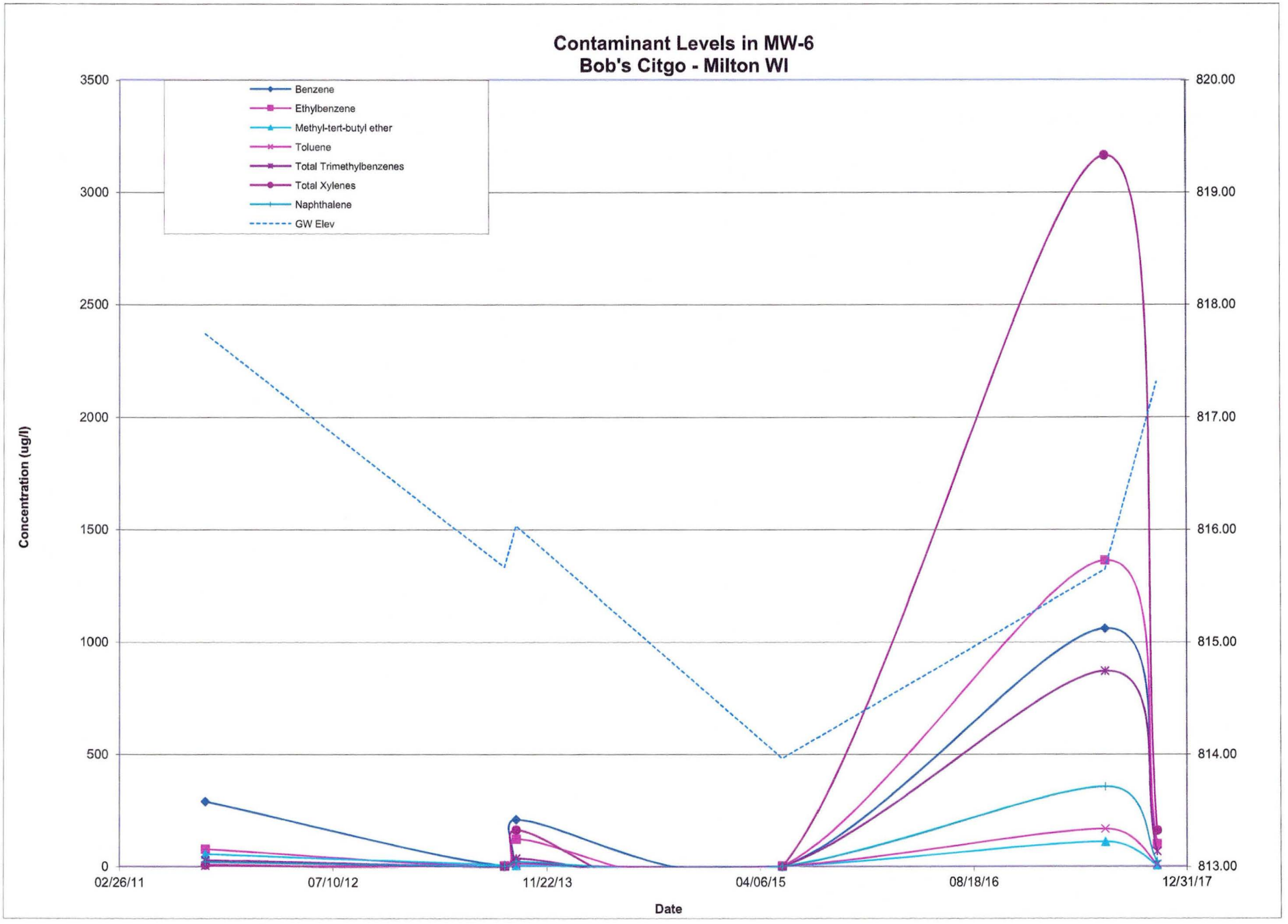

MTBE in Groundwater
Bob's Citgo - Milton WI
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
Concnetration (ug/l)
1000
900
800
700
600
500
400
300
200
100
0
05/02/10
09/14/11
01/26/13
06/10/14
10/23/15
03/06/17
Date

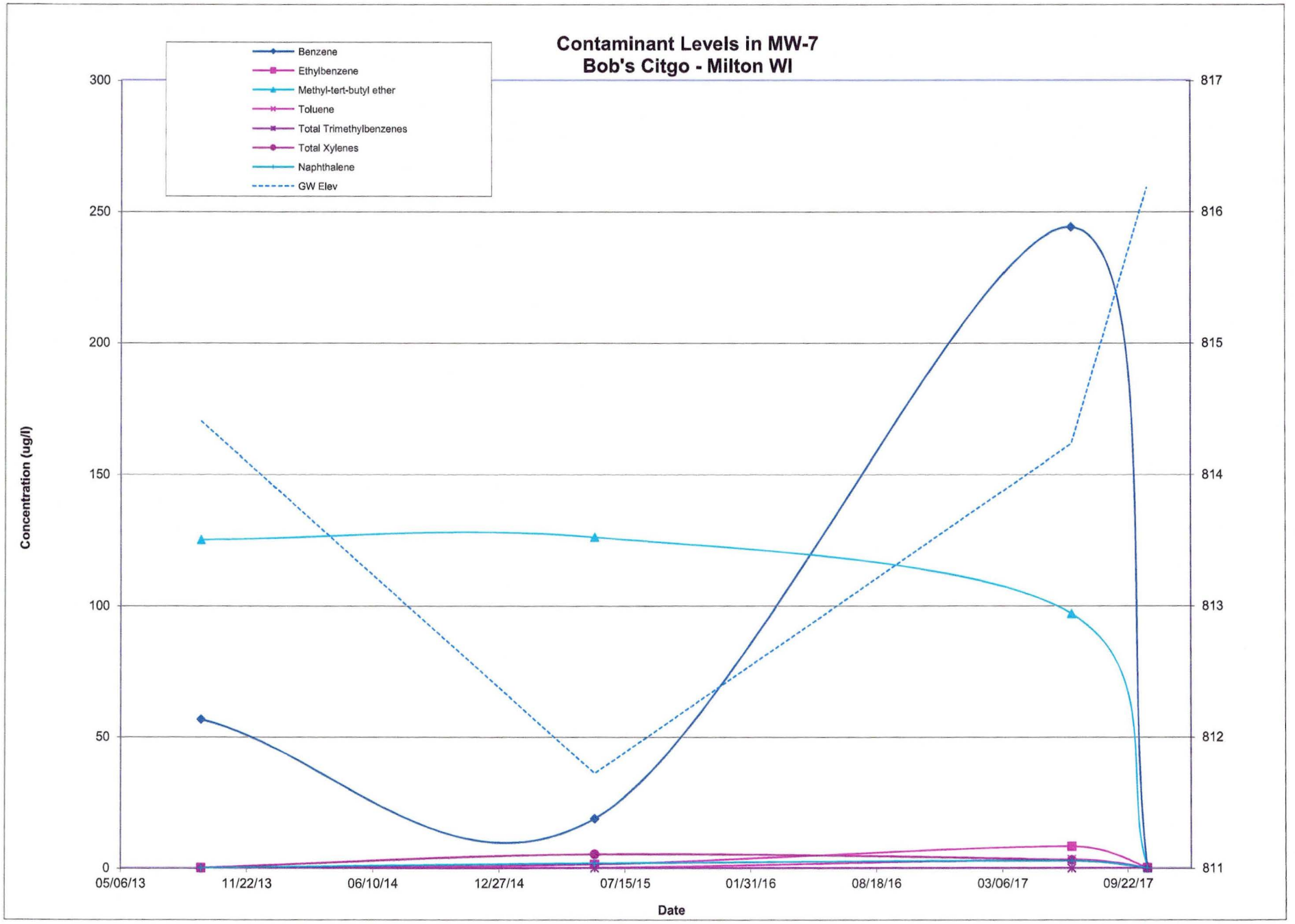

Contaminant Levels in MW-1
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
821.5
821
820.5
820
819.5
819
818.5
818
817.5
817
816.5
05/02/10
09/14/11
01/26/13
06/10/14
10/23/15
03/06/17
Date

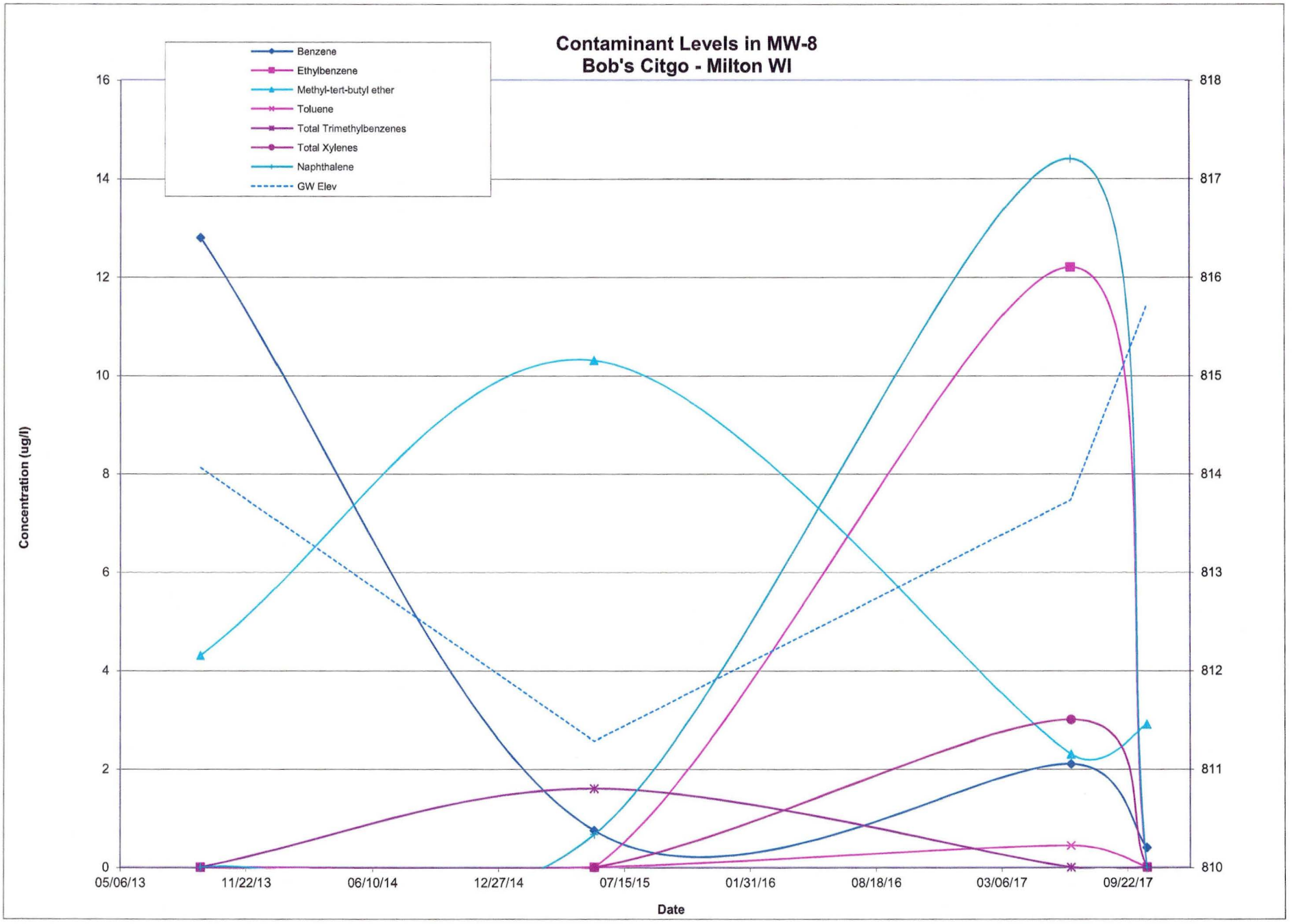

Contaminant Levels in MW-3
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
823.50
823.00
822.50
822.00
821.50
821.00
820.50
820.00
819.50
819.00
05/02/10
09/14/11
01/26/13
06/10/14
10/23/15
03/06/17
Date


Contaminant Levels in MW-4
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
250
200
150
100
50
0
824
823
822
821
820
819
818
817
816
815
814
02/26/11
07/10/12
11/22/13
04/06/15
08/18/16
12/31/17
Date


Contaminant Levels in MW-5
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
821.00
820.00
819.00
818.00
817.00
816.00
815.00
814.00
813.00
812.00
02/26/11
07/10/12
11/22/13
04/06/15
08/18/16
12/31/17
Date


Contaminant Levels in MW-6
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
Date
3500
3000
2500
2000
1500
1000
500
0
820.00
819.00
818.00
817.00
816.00
815.00
814.00
813.00
02/26/11
07/10/12
11/22/13
04/06/15
08/18/16
12/31/17


Contaminant Levels in MW-7
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
300
250
200
150
100
50
0
817
816
815
814
813
812
811
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
09/22/17
Date


Contaminant Levels in MW-8
Bob's Citgo - Milton WI
Benzene
Ethylbenzene
Methyl-tert-butyl ether
Toluene
Total Trimethylbenzenes
Total Xylenes
Naphthalene
GW Elev
Concentration (ug/l)
Date
0
2
4
6
8
10
12
14
16
810
811
812
813
814
815
816
817
818
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
09/22/17

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 06, 2017

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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(920)469-2436

SAMPLE SUMMARY

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152618001	**MW-10**	Water	06/24/17 10:45	06/30/17 10:30
40152618002	**MW-9**	Water	06/24/17 10:20	06/30/17 10:30
40152618003	**MW-6**	Water	06/24/17 10:30	06/30/17 10:30
40152618004	**MW-8**	Water	06/24/17 09:45	06/30/17 10:30
40152618005	**MW-7**	Water	06/24/17 10:00	06/30/17 10:30
40152618006	**MW-4**	Water	06/24/17 11:00	06/30/17 10:30
40152618007	**MW-5**	Water	06/24/17 11:20	06/30/17 10:30
40152618008	**MW-3**	Water	06/24/17 11:40	06/30/17 10:30
40152618009	**MW-2**	Water	06/24/17 12:00	06/30/17 10:30
40152618010	**MW-1**	Water	06/24/17 12:15	06/30/17 10:30

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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40152618001	**MW-10**	WI MOD GRO	ALD	10	PASI-G
40152618002	**MW-9**	WI MOD GRO	ALD	10	PASI-G
40152618003	**MW-6**	WI MOD GRO	ALD	10	PASI-G
40152618004	**MW-8**	WI MOD GRO	ALD	10	PASI-G
40152618005	**MW-7**	WI MOD GRO	ALD	10	PASI-G
40152618006	**MW-4**	WI MOD GRO	ALD	10	PASI-G
40152618007	**MW-5**	WI MOD GRO	ALD	10	PASI-G
40152618008	**MW-3**	WI MOD GRO	ALD	10	PASI-G
40152618009	**MW-2**	WI MOD GRO	ALD	10	PASI-G
40152618010	**MW-1**	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40152618003	**MW-6**					
WI MOD GRO	Benzene	1060	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	Ethylbenzene	1360	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	Methyl-tert-butyl ether	109	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	Naphthalene	354	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	Toluene	166	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	1,2,4-Trimethylbenzene	681	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	1,3,5-Trimethylbenzene	189	ug/L	10.0	07/04/17 10:03	
WI MOD GRO	m&p-Xylene	2370	ug/L	20.0	07/04/17 10:03	
WI MOD GRO	o-Xylene	794	ug/L	10.0	07/04/17 10:03	
40152618004	**MW-8**					
WI MOD GRO	Benzene	2.1	ug/L	1.0	07/03/17 16:53	
WI MOD GRO	Ethylbenzene	12.2	ug/L	1.0	07/03/17 16:53	
WI MOD GRO	Methyl-tert-butyl ether	2.3	ug/L	1.0	07/03/17 16:53	
WI MOD GRO	Naphthalene	14.4	ug/L	1.0	07/03/17 16:53	
WI MOD GRO	Toluene	0.44J	ug/L	1.0	07/03/17 16:53	
WI MOD GRO	m&p-Xylene	3.0	ug/L	2.0	07/03/17 16:53	
40152618005	**MW-7**					
WI MOD GRO	Benzene	244	ug/L	2.0	07/05/17 20:41	
WI MOD GRO	Ethylbenzene	8.2	ug/L	2.0	07/05/17 20:41	
WI MOD GRO	Methyl-tert-butyl ether	96.9	ug/L	2.0	07/05/17 20:41	
WI MOD GRO	Naphthalene	2.7	ug/L	2.0	07/05/17 20:41	
WI MOD GRO	Toluene	3.2	ug/L	2.0	07/05/17 20:41	
WI MOD GRO	o-Xylene	3.0	ug/L	2.0	07/05/17 20:41	
40152618006	**MW-4**					
WI MOD GRO	Methyl-tert-butyl ether	0.68J	ug/L	1.0	07/03/17 17:19	
40152618008	**MW-3**					
WI MOD GRO	Benzene	1100	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	Ethylbenzene	2900	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	Methyl-tert-butyl ether	28.6J	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	Naphthalene	743	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	Toluene	68.3	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	1,2,4-Trimethylbenzene	2400	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	1,3,5-Trimethylbenzene	663	ug/L	50.0	07/04/17 09:11	
WI MOD GRO	m&p-Xylene	8390	ug/L	100	07/04/17 09:11	
WI MOD GRO	o-Xylene	818	ug/L	50.0	07/04/17 09:11	
40152618009	**MW-2**					
WI MOD GRO	Benzene	2310	ug/L	100	07/03/17 22:27	
WI MOD GRO	Ethylbenzene	3300	ug/L	100	07/03/17 22:27	
WI MOD GRO	Methyl-tert-butyl ether	60.6J	ug/L	100	07/03/17 22:27	
WI MOD GRO	Naphthalene	1560	ug/L	100	07/03/17 22:27	
WI MOD GRO	Toluene	480	ug/L	100	07/03/17 22:27	
WI MOD GRO	1,2,4-Trimethylbenzene	4090	ug/L	100	07/03/17 22:27	
WI MOD GRO	1,3,5-Trimethylbenzene	1070	ug/L	100	07/03/17 22:27	
WI MOD GRO	m&p-Xylene	10400	ug/L	200	07/03/17 22:27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40152618009	**MW-2**					
WI MOD GRO	o-Xylene	2550	ug/L	100	07/03/17 22:27	
40152618010	**MW-1**					
WI MOD GRO	Benzene	6970	ug/L	200	07/03/17 21:36	
WI MOD GRO	Ethylbenzene	2980	ug/L	200	07/03/17 21:36	
WI MOD GRO	Methyl-tert-butyl ether	390	ug/L	200	07/03/17 21:36	
WI MOD GRO	Naphthalene	734	ug/L	200	07/03/17 21:36	
WI MOD GRO	Toluene	17100	ug/L	200	07/03/17 21:36	
WI MOD GRO	1,2,4-Trimethylbenzene	1790	ug/L	200	07/03/17 21:36	
WI MOD GRO	1,3,5-Trimethylbenzene	434	ug/L	200	07/03/17 21:36	
WI MOD GRO	m&p-Xylene	8820	ug/L	400	07/03/17 21:36	
WI MOD GRO	o-Xylene	4060	ug/L	200	07/03/17 21:36	

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ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Sample: MW-10 **Lab ID: 40152618001** Collected: 06/24/17 10:45 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		07/03/17 16:02	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 16:02	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/03/17 16:02	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:02	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 16:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:02	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/03/17 16:02	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/03/17 16:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		07/03/17 16:02	98-08-8	

Sample: MW-9 **Lab ID: 40152618002** Collected: 06/24/17 10:20 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		07/03/17 16:28	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 16:28	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/03/17 16:28	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:28	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 16:28	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:28	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/03/17 16:28	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/03/17 16:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		07/03/17 16:28	98-08-8	

Sample: MW-6 **Lab ID: 40152618003** Collected: 06/24/17 10:30 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1060**	ug/L	10.0	4.0	10		07/04/17 10:03	71-43-2	
Ethylbenzene	**1360**	ug/L	10.0	3.9	10		07/04/17 10:03	100-41-4	
Methyl-tert-butyl ether	**109**	ug/L	10.0	4.8	10		07/04/17 10:03	1634-04-4	
Naphthalene	**354**	ug/L	10.0	4.2	10		07/04/17 10:03	91-20-3	
Toluene	**166**	ug/L	10.0	3.9	10		07/04/17 10:03	108-88-3	
1,2,4-Trimethylbenzene	**681**	ug/L	10.0	4.2	10		07/04/17 10:03	95-63-6	
1,3,5-Trimethylbenzene	**189**	ug/L	10.0	4.2	10		07/04/17 10:03	108-67-8	
m&p-Xylene	**2370**	ug/L	20.0	8.0	10		07/04/17 10:03	179601-23-1	
o-Xylene	**794**	ug/L	10.0	4.5	10		07/04/17 10:03	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Sample: MW-6 **Lab ID: 40152618003** Collected: 06/24/17 10:30 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	113	%	80-120		10		07/04/17 10:03	98-08-8	

Sample: MW-8 **Lab ID: 40152618004** Collected: 06/24/17 09:45 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**2.1**	ug/L	1.0	0.40	1		07/03/17 16:53	71-43-2	
Ethylbenzene	**12.2**	ug/L	1.0	0.39	1		07/03/17 16:53	100-41-4	
Methyl-tert-butyl ether	**2.3**	ug/L	1.0	0.48	1		07/03/17 16:53	1634-04-4	
Naphthalene	**14.4**	ug/L	1.0	0.42	1		07/03/17 16:53	91-20-3	
Toluene	**0.44J**	ug/L	1.0	0.39	1		07/03/17 16:53	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 16:53	108-67-8	
m&p-Xylene	**3.0**	ug/L	2.0	0.80	1		07/03/17 16:53	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/03/17 16:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		07/03/17 16:53	98-08-8	

Sample: MW-7 **Lab ID: 40152618005** Collected: 06/24/17 10:00 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**244**	ug/L	2.0	0.79	2		07/05/17 20:41	71-43-2	
Ethylbenzene	**8.2**	ug/L	2.0	0.79	2		07/05/17 20:41	100-41-4	
Methyl-tert-butyl ether	**96.9**	ug/L	2.0	0.97	2		07/05/17 20:41	1634-04-4	
Naphthalene	**2.7**	ug/L	2.0	0.85	2		07/05/17 20:41	91-20-3	
Toluene	**3.2**	ug/L	2.0	0.78	2		07/05/17 20:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.0	0.84	2		07/05/17 20:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	2.0	0.83	2		07/05/17 20:41	108-67-8	
m&p-Xylene	**<1.6**	ug/L	4.0	1.6	2		07/05/17 20:41	179601-23-1	
o-Xylene	**3.0**	ug/L	2.0	0.90	2		07/05/17 20:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		2		07/05/17 20:41	98-08-8	HS

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ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Sample: MW-4 **Lab ID: 40152618006** Collected: 06/24/17 11:00 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		07/03/17 17:19	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 17:19	100-41-4	
Methyl-tert-butyl ether	**0.68J**	ug/L	1.0	0.48	1		07/03/17 17:19	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:19	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 17:19	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:19	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/03/17 17:19	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/03/17 17:19	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		07/03/17 17:19	98-08-8	

Sample: MW-5 **Lab ID: 40152618007** Collected: 06/24/17 11:20 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		07/03/17 17:45	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 17:45	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/03/17 17:45	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:45	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/03/17 17:45	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/03/17 17:45	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/03/17 17:45	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/03/17 17:45	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		07/03/17 17:45	98-08-8	

Sample: MW-3 **Lab ID: 40152618008** Collected: 06/24/17 11:40 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1100**	ug/L	50.0	19.8	50		07/04/17 09:11	71-43-2	
Ethylbenzene	**2900**	ug/L	50.0	19.6	50		07/04/17 09:11	100-41-4	
Methyl-tert-butyl ether	**28.6J**	ug/L	50.0	24.2	50		07/04/17 09:11	1634-04-4	
Naphthalene	**743**	ug/L	50.0	21.2	50		07/04/17 09:11	91-20-3	
Toluene	**68.3**	ug/L	50.0	19.4	50		07/04/17 09:11	108-88-3	
1,2,4-Trimethylbenzene	**2400**	ug/L	50.0	20.9	50		07/04/17 09:11	95-63-6	
1,3,5-Trimethylbenzene	**663**	ug/L	50.0	20.8	50		07/04/17 09:11	108-67-8	
m&p-Xylene	**8390**	ug/L	100	40.0	50		07/04/17 09:11	179601-23-1	
o-Xylene	**818**	ug/L	50.0	22.4	50		07/04/17 09:11	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Sample: MW-3 **Lab ID: 40152618008** Collected: 06/24/17 11:40 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		50		07/04/17 09:11	98-08-8	

Sample: MW-2 **Lab ID: 40152618009** Collected: 06/24/17 12:00 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**2310**	ug/L	100	39.6	100		07/03/17 22:27	71-43-2	
Ethylbenzene	**3300**	ug/L	100	39.3	100		07/03/17 22:27	100-41-4	
Methyl-tert-butyl ether	**60.6J**	ug/L	100	48.5	100		07/03/17 22:27	1634-04-4	
Naphthalene	**1560**	ug/L	100	42.4	100		07/03/17 22:27	91-20-3	
Toluene	**480**	ug/L	100	38.8	100		07/03/17 22:27	108-88-3	
1,2,4-Trimethylbenzene	**4090**	ug/L	100	41.8	100		07/03/17 22:27	95-63-6	
1,3,5-Trimethylbenzene	**1070**	ug/L	100	41.6	100		07/03/17 22:27	108-67-8	
m&p-Xylene	**10400**	ug/L	200	79.9	100		07/03/17 22:27	179601-23-1	
o-Xylene	**2550**	ug/L	100	44.9	100		07/03/17 22:27	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		100		07/03/17 22:27	98-08-8	

Sample: MW-1 **Lab ID: 40152618010** Collected: 06/24/17 12:15 Received: 06/30/17 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**6970**	ug/L	200	79.2	200		07/03/17 21:36	71-43-2	
Ethylbenzene	**2980**	ug/L	200	78.6	200		07/03/17 21:36	100-41-4	
Methyl-tert-butyl ether	**390**	ug/L	200	97.0	200		07/03/17 21:36	1634-04-4	
Naphthalene	**734**	ug/L	200	84.8	200		07/03/17 21:36	91-20-3	
Toluene	**17100**	ug/L	200	77.6	200		07/03/17 21:36	108-88-3	
1,2,4-Trimethylbenzene	**1790**	ug/L	200	83.6	200		07/03/17 21:36	95-63-6	
1,3,5-Trimethylbenzene	**434**	ug/L	200	83.2	200		07/03/17 21:36	108-67-8	
m&p-Xylene	**8820**	ug/L	400	160	200		07/03/17 21:36	179601-23-1	
o-Xylene	**4060**	ug/L	200	89.8	200		07/03/17 21:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		200		07/03/17 21:36	98-08-8	

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QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

QC Batch: 260380 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40152618001, 40152618002, 40152618003, 40152618004, 40152618005, 40152618006, 40152618007, 40152618008, 40152618009, 40152618010

METHOD BLANK: 1534624 Matrix: Water
Associated Lab Samples: 40152618001, 40152618002, 40152618003, 40152618004, 40152618005, 40152618006, 40152618007, 40152618008, 40152618009, 40152618010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	07/03/17 13:28	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	07/03/17 13:28	
Benzene	ug/L	<0.40	1.0	07/03/17 13:28	
Ethylbenzene	ug/L	<0.39	1.0	07/03/17 13:28	
m&p-Xylene	ug/L	<0.80	2.0	07/03/17 13:28	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	07/03/17 13:28	
Naphthalene	ug/L	<0.42	1.0	07/03/17 13:28	
o-Xylene	ug/L	<0.45	1.0	07/03/17 13:28	
Toluene	ug/L	<0.39	1.0	07/03/17 13:28	
a,a,a-Trifluorotoluene (S)	%	107	80-120	07/03/17 13:28	

LABORATORY CONTROL SAMPLE & LCSD: 1534625 1534626

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	17.9	19.4	90	97	80-120	8	20	
1,3,5-Trimethylbenzene	ug/L	20	17.4	18.6	87	93	80-120	7	20	
Benzene	ug/L	20	21.5	22.3	108	111	80-120	3	20	
Ethylbenzene	ug/L	20	20.4	21.7	102	108	80-120	6	20	
m&p-Xylene	ug/L	40	39.1	41.8	98	105	80-120	7	20	
Methyl-tert-butyl ether	ug/L	20	20.1	19.4	100	97	80-120	3	20	
Naphthalene	ug/L	20	20.3	20.3	101	101	80-120	0	20	
o-Xylene	ug/L	20	19.9	20.9	100	105	80-120	5	20	
Toluene	ug/L	20	20.6	21.7	103	108	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				107	108	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534833 1534834

Parameter	Units	40152584004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	2650	400	400	2600	1150	-13	-375	11-200	77	20	M1,R1
1,3,5-Trimethylbenzene	ug/L	95.2	400	400	409	388	78	73	54-142	5	20	
Benzene	ug/L	13.1J	400	400	435	444	106	108	66-140	2	20	
Ethylbenzene	ug/L	339	400	400	696	601	89	66	66-143	15	20	
m&p-Xylene	ug/L	181	800	800	916	905	92	91	60-141	1	20	
Methyl-tert-butyl ether	ug/L	<9.7	400	400	390	403	97	101	70-129	3	20	
Naphthalene	ug/L	185	400	400	679	475	124	73	64-129	35	20	R1
o-Xylene	ug/L	30.8	400	400	415	416	96	96	68-132	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534833 1534834

Parameter	Units	40152584004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<7.8	400	400	424	421	106	105	76-130	1	20	
a,a,a-Trifluorotoluene (S)	%						118	110	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40152618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152618001	**MW-10**	WI MOD GRO	260380		
40152618002	**MW-9**	WI MOD GRO	260380		
40152618003	**MW-6**	WI MOD GRO	260380		
40152618004	**MW-8**	WI MOD GRO	260380		
40152618005	**MW-7**	WI MOD GRO	260380		
40152618006	**MW-4**	WI MOD GRO	260380		
40152618007	**MW-5**	WI MOD GRO	260380		
40152618008	**MW-3**	WI MOD GRO	260380		
40152618009	**MW-2**	WI MOD GRO	260380		
40152618010	**MW-1**	WI MOD GRO	260380		

Pace Analytical®

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

BB

COC No. 40152618

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Seymour Environmental Services
Branch/Location:	McFarland
Project Contact:	Robyn Seymour
Phone:	608-838-9120
Project Number:	10370.00
Project Name:	Bob's Citgo
Project State:	Wisconsin
Sampled By (Print):	Mark R. Seymour
Sampled By (Sign):	Mark R. Seymour
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Robyn Seymour
Mail To Company:	Seymour Environmental Services
Mail To Address:	2531 Dyreson Road McFarland, Wisconsin 53558
Invoice To Contact:	Robyn Seymour
Invoice To Company:	Seymour Environmental Services
Invoice To Address:	2531 Dyreson Road McFarland, Wisconsin 53558
Invoice To Phone:	

Data Package Options (billable)
- [ ] EPA Level III
- [ ] EPA Level IV

MS/MSD
- [ ] On your sample (billable)
- [ ] NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) PRESERVATION (CODE)* Y/N	Pick Letter	Analyses Requested: PVOC + naphthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
						N			Profile #
						B			
001	MW-10	6/24/17	10:45	GW			X		3-40mlV6
002	MW-9	6/24/17	10:20	GW			X		
003	MW-6	6/24/17	10:30	GW			X		
004	MW-8	6/24/17	9:45	GW			X		
005	MW-7	6/24/17	10:00	GW			X		
006	MW-4	6/24/17	11:00	GW			X		
007	MW-5	6/24/17	11:20	GW			X		
008	MW-3	6/24/17	11:40	GW			X	sheen	
009	MW-2	6/24/17	12:00	GW			X	Hot!!	
010	MW-1	6/24/17	12:15	GW			X		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	rseymour@chorus.net
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Mark R Seymour	6/28/17 pm		
CS Logistics	6/30/17 1030	Received at Pace	6/30/17 1030

PACE Project No.
40152618

Receipt Temp = 8.0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/05

C019a(27Jun2006)

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Project #: **WO#: 40152618**

40152618

Client Name: Seymour Environmental

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #: 512.0629117

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 12.0 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 6/30/17
Initials: RMW

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3. No time on relinquish RMW 6/30/17
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☑No	☐N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	14 (1)
Trip Blank Present:	☐Yes	☑No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

(1) 001: 1-40mlVB, 002: 40mlVB-1, 003: 40mlVB-1, 005: 1-40mlVB, 006: 2-40mlVB
007: 2-40mlVB RMW 6/30/17

Project Manager Review: RMR for RM **Date:** 6/30/17

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October 30, 2017

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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CERTIFICATIONS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40159376001	**MW-8**	Water	10/23/17 14:20	10/25/17 09:45
40159376002	**MW-7**	Water	10/23/17 14:35	10/25/17 09:45
40159376003	**MW-9**	Water	10/23/17 14:50	10/25/17 09:45
40159376004	**MW-6**	Water	10/23/17 15:05	10/25/17 09:45
40159376005	**MW-10**	Water	10/23/17 15:20	10/25/17 09:45
40159376006	**MW-4**	Water	10/23/17 15:40	10/25/17 09:45
40159376007	**MW-5**	Water	10/23/17 15:55	10/25/17 09:45
40159376008	**MW-3**	Water	10/23/17 16:10	10/25/17 09:45
40159376009	**MW-2**	Water	10/23/17 16:50	10/25/17 09:45
40159376010	**MW-1**	Water	10/23/17 16:30	10/25/17 09:45

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SAMPLE ANALYTE COUNT

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40159376001	**MW-8**	WI MOD GRO	ALD	10	PASI-G
40159376002	**MW-7**	WI MOD GRO	ALD	10	PASI-G
40159376003	**MW-9**	WI MOD GRO	ALD	10	PASI-G
40159376004	**MW-6**	WI MOD GRO	ALD	10	PASI-G
40159376005	**MW-10**	WI MOD GRO	ALD	10	PASI-G
40159376006	**MW-4**	WI MOD GRO	ALD	10	PASI-G
40159376007	**MW-5**	WI MOD GRO	ALD	10	PASI-G
40159376008	**MW-3**	WI MOD GRO	ALD	10	PASI-G
40159376009	**MW-2**	WI MOD GRO	ALD	10	PASI-G
40159376010	**MW-1**	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40159376001	**MW-8**					
WI MOD GRO	Methyl-tert-butyl ether	2.9	ug/L	1.0	10/26/17 16:23	
40159376004	**MW-6**					
WI MOD GRO	Benzene	103	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	Ethylbenzene	98.7	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	Methyl-tert-butyl ether	4.1	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	Naphthalene	22.2	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	Toluene	7.9	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	1,2,4-Trimethylbenzene	51.9	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	1,3,5-Trimethylbenzene	13.4	ug/L	4.0	10/26/17 21:05	
WI MOD GRO	m&p-Xylene	127	ug/L	8.0	10/26/17 21:05	
WI MOD GRO	o-Xylene	33.0	ug/L	4.0	10/26/17 21:05	
40159376006	**MW-4**					
WI MOD GRO	Methyl-tert-butyl ether	21.7	ug/L	1.0	10/26/17 17:40	
40159376007	**MW-5**					
WI MOD GRO	Naphthalene	2.6	ug/L	1.0	10/27/17 09:58	
40159376008	**MW-3**					
WI MOD GRO	Benzene	1760	ug/L	100	10/26/17 20:14	
WI MOD GRO	Ethylbenzene	2730	ug/L	100	10/26/17 20:14	
WI MOD GRO	Methyl-tert-butyl ether	58.3J	ug/L	100	10/26/17 20:14	
WI MOD GRO	Naphthalene	884	ug/L	100	10/26/17 20:14	
WI MOD GRO	Toluene	163	ug/L	100	10/26/17 20:14	
WI MOD GRO	1,2,4-Trimethylbenzene	2770	ug/L	100	10/26/17 20:14	
WI MOD GRO	1,3,5-Trimethylbenzene	745	ug/L	100	10/26/17 20:14	
WI MOD GRO	m&p-Xylene	7650	ug/L	200	10/26/17 20:14	
WI MOD GRO	o-Xylene	1980	ug/L	100	10/26/17 20:14	
40159376009	**MW-2**					
WI MOD GRO	Benzene	1080	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	Ethylbenzene	2310	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	Naphthalene	928	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	Toluene	204	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	1,2,4-Trimethylbenzene	3230	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	1,3,5-Trimethylbenzene	825	ug/L	50.0	10/27/17 11:15	
WI MOD GRO	m&p-Xylene	7410	ug/L	100	10/27/17 11:15	
WI MOD GRO	o-Xylene	1230	ug/L	50.0	10/27/17 11:15	
40159376010	**MW-1**					
WI MOD GRO	Benzene	5170	ug/L	200	10/26/17 19:48	
WI MOD GRO	Ethylbenzene	2940	ug/L	200	10/26/17 19:48	
WI MOD GRO	Methyl-tert-butyl ether	222	ug/L	200	10/26/17 19:48	
WI MOD GRO	Naphthalene	711	ug/L	200	10/26/17 19:48	
WI MOD GRO	Toluene	14000	ug/L	200	10/26/17 19:48	
WI MOD GRO	1,2,4-Trimethylbenzene	1860	ug/L	200	10/26/17 19:48	
WI MOD GRO	1,3,5-Trimethylbenzene	464	ug/L	200	10/26/17 19:48	
WI MOD GRO	m&p-Xylene	8960	ug/L	400	10/26/17 19:48	
WI MOD GRO	o-Xylene	4210	ug/L	200	10/26/17 19:48	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Sample: MW-8 **Lab ID: 40159376001** Collected: 10/23/17 14:20 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/26/17 16:23	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 16:23	100-41-4	
Methyl-tert-butyl ether	**2.9**	ug/L	1.0	0.48	1		10/26/17 16:23	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:23	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 16:23	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:23	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/26/17 16:23	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/26/17 16:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/26/17 16:23	98-08-8	

Sample: MW-7 **Lab ID: 40159376002** Collected: 10/23/17 14:35 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/27/17 09:32	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/27/17 09:32	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		10/27/17 09:32	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/27/17 09:32	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/27/17 09:32	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/27/17 09:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/27/17 09:32	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/27/17 09:32	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/27/17 09:32	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/27/17 09:32	98-08-8	

Sample: MW-9 **Lab ID: 40159376003** Collected: 10/23/17 14:50 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/26/17 16:49	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 16:49	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		10/26/17 16:49	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:49	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 16:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 16:49	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/26/17 16:49	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/26/17 16:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Sample: MW-9 **Lab ID: 40159376003** Collected: 10/23/17 14:50 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/26/17 16:49	98-08-8	

Sample: MW-6 **Lab ID: 40159376004** Collected: 10/23/17 15:05 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**103**	ug/L	4.0	1.6	4		10/26/17 21:05	71-43-2	
Ethylbenzene	**98.7**	ug/L	4.0	1.6	4		10/26/17 21:05	100-41-4	
Methyl-tert-butyl ether	**4.1**	ug/L	4.0	1.9	4		10/26/17 21:05	1634-04-4	
Naphthalene	**22.2**	ug/L	4.0	1.7	4		10/26/17 21:05	91-20-3	
Toluene	**7.9**	ug/L	4.0	1.6	4		10/26/17 21:05	108-88-3	
1,2,4-Trimethylbenzene	**51.9**	ug/L	4.0	1.7	4		10/26/17 21:05	95-63-6	
1,3,5-Trimethylbenzene	**13.4**	ug/L	4.0	1.7	4		10/26/17 21:05	108-67-8	
m&p-Xylene	**127**	ug/L	8.0	3.2	4		10/26/17 21:05	179601-23-1	
o-Xylene	**33.0**	ug/L	4.0	1.8	4		10/26/17 21:05	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		4		10/26/17 21:05	98-08-8	

Sample: MW-10 **Lab ID: 40159376005** Collected: 10/23/17 15:20 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/26/17 17:15	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 17:15	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		10/26/17 17:15	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:15	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 17:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:15	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/26/17 17:15	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/26/17 17:15	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/26/17 17:15	98-08-8	HS,pH

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ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Sample: MW-4 **Lab ID: 40159376006** Collected: 10/23/17 15:40 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/26/17 17:40	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 17:40	100-41-4	
Methyl-tert-butyl ether	**21.7**	ug/L	1.0	0.48	1		10/26/17 17:40	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:40	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/26/17 17:40	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/26/17 17:40	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/26/17 17:40	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/26/17 17:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/26/17 17:40	98-08-8	

Sample: MW-5 **Lab ID: 40159376007** Collected: 10/23/17 15:55 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/27/17 09:58	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/27/17 09:58	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		10/27/17 09:58	1634-04-4	
Naphthalene	**2.6**	ug/L	1.0	0.42	1		10/27/17 09:58	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/27/17 09:58	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/27/17 09:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/27/17 09:58	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		10/27/17 09:58	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		10/27/17 09:58	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/27/17 09:58	98-08-8	

Sample: MW-3 **Lab ID: 40159376008** Collected: 10/23/17 16:10 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1760**	ug/L	100	39.6	100		10/26/17 20:14	71-43-2	
Ethylbenzene	**2730**	ug/L	100	39.3	100		10/26/17 20:14	100-41-4	
Methyl-tert-butyl ether	**58.3J**	ug/L	100	48.5	100		10/26/17 20:14	1634-04-4	
Naphthalene	**884**	ug/L	100	42.4	100		10/26/17 20:14	91-20-3	
Toluene	**163**	ug/L	100	38.8	100		10/26/17 20:14	108-88-3	
1,2,4-Trimethylbenzene	**2770**	ug/L	100	41.8	100		10/26/17 20:14	95-63-6	
1,3,5-Trimethylbenzene	**745**	ug/L	100	41.6	100		10/26/17 20:14	108-67-8	
m&p-Xylene	**7650**	ug/L	200	79.9	100		10/26/17 20:14	179601-23-1	
o-Xylene	**1980**	ug/L	100	44.9	100		10/26/17 20:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Sample: MW-3 **Lab ID: 40159376008** Collected: 10/23/17 16:10 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		100		10/26/17 20:14	98-08-8	

Sample: MW-2 **Lab ID: 40159376009** Collected: 10/23/17 16:50 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1080**	ug/L	50.0	19.8	50		10/27/17 11:15	71-43-2	
Ethylbenzene	**2310**	ug/L	50.0	19.6	50		10/27/17 11:15	100-41-4	
Methyl-tert-butyl ether	**<24.2**	ug/L	50.0	24.2	50		10/27/17 11:15	1634-04-4	
Naphthalene	**928**	ug/L	50.0	21.2	50		10/27/17 11:15	91-20-3	
Toluene	**204**	ug/L	50.0	19.4	50		10/27/17 11:15	108-88-3	
1,2,4-Trimethylbenzene	**3230**	ug/L	50.0	20.9	50		10/27/17 11:15	95-63-6	
1,3,5-Trimethylbenzene	**825**	ug/L	50.0	20.8	50		10/27/17 11:15	108-67-8	
m&p-Xylene	**7410**	ug/L	100	40.0	50		10/27/17 11:15	179601-23-1	
o-Xylene	**1230**	ug/L	50.0	22.4	50		10/27/17 11:15	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		50		10/27/17 11:15	98-08-8	

Sample: MW-1 **Lab ID: 40159376010** Collected: 10/23/17 16:30 Received: 10/25/17 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**5170**	ug/L	200	79.2	200		10/26/17 19:48	71-43-2	
Ethylbenzene	**2940**	ug/L	200	78.6	200		10/26/17 19:48	100-41-4	
Methyl-tert-butyl ether	**222**	ug/L	200	97.0	200		10/26/17 19:48	1634-04-4	
Naphthalene	**711**	ug/L	200	84.8	200		10/26/17 19:48	91-20-3	
Toluene	**14000**	ug/L	200	77.6	200		10/26/17 19:48	108-88-3	
1,2,4-Trimethylbenzene	**1860**	ug/L	200	83.6	200		10/26/17 19:48	95-63-6	
1,3,5-Trimethylbenzene	**464**	ug/L	200	83.2	200		10/26/17 19:48	108-67-8	
m&p-Xylene	**8960**	ug/L	400	160	200		10/26/17 19:48	179601-23-1	
o-Xylene	**4210**	ug/L	200	89.8	200		10/26/17 19:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		200		10/26/17 19:48	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

QC Batch: 271927 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40159376001, 40159376002, 40159376003, 40159376004, 40159376005, 40159376006, 40159376007, 40159376008, 40159376009, 40159376010

METHOD BLANK: 1599075 Matrix: Water
Associated Lab Samples: 40159376001, 40159376002, 40159376003, 40159376004, 40159376005, 40159376006, 40159376007, 40159376008, 40159376009, 40159376010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	10/26/17 09:08	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	10/26/17 09:08	
Benzene	ug/L	<0.40	1.0	10/26/17 09:08	
Ethylbenzene	ug/L	<0.39	1.0	10/26/17 09:08	
m&p-Xylene	ug/L	<0.80	2.0	10/26/17 09:08	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	10/26/17 09:08	
Naphthalene	ug/L	<0.42	1.0	10/26/17 09:08	
o-Xylene	ug/L	<0.45	1.0	10/26/17 09:08	
Toluene	ug/L	<0.39	1.0	10/26/17 09:08	
a,a,a-Trifluorotoluene (S)	%	101	80-120	10/26/17 09:08	

LABORATORY CONTROL SAMPLE & LCSD: 1599076 1599077

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	20.3	104	101	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	19.9	19.5	100	97	80-120	2	20	
Benzene	ug/L	20	19.7	19.7	99	98	80-120	0	20	
Ethylbenzene	ug/L	20	19.9	19.6	100	98	80-120	2	20	
m&p-Xylene	ug/L	40	39.7	38.7	99	97	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	20.5	20.3	102	101	80-120	1	20	
Naphthalene	ug/L	20	21.1	20.6	105	103	80-120	2	20	
o-Xylene	ug/L	20	20.2	19.7	101	99	80-120	3	20	
Toluene	ug/L	20	19.7	19.5	99	98	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1600222 1600223

Parameter	Units	40159242005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	22.5	22.3	112	111	11-200	1	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	21.3	21.5	107	108	54-142	1	20	
Benzene	ug/L	<0.40	20	20	21.3	21.5	106	108	66-140	1	20	
Ethylbenzene	ug/L	<0.39	20	20	21.6	21.6	108	108	66-143	0	20	
m&p-Xylene	ug/L	<0.80	40	40	43.3	43.2	108	108	60-141	0	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.7	20.7	104	103	70-129	0	20	
Naphthalene	ug/L	<0.42	20	20	21.1	21.0	106	105	64-129	1	20	
o-Xylene	ug/L	<0.45	20	20	21.6	21.7	108	108	68-132	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1600222 1600223

Parameter	Units	40159242005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.39	20	20	21.2	21.4	106	107	76-130	1	20	
a,a,a-Trifluorotoluene (S)	%						100	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10370.00 BOB'S CITGO
Pace Project No.: 40159376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40159376001	**MW-8**	WI MOD GRO	271927		
40159376002	**MW-7**	WI MOD GRO	271927		
40159376003	**MW-9**	WI MOD GRO	271927		
40159376004	**MW-6**	WI MOD GRO	271927		
40159376005	**MW-10**	WI MOD GRO	271927		
40159376006	**MW-4**	WI MOD GRO	271927		
40159376007	**MW-5**	WI MOD GRO	271927		
40159376008	**MW-3**	WI MOD GRO	271927		
40159376009	**MW-2**	WI MOD GRO	271927		
40159376010	**MW-1**	WI MOD GRO	271927		

Pace Analytical®

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

RMV

COC No. 40159376

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Seymour Environmental Services
Branch/Location:	McFarland
Project Contact:	Robyn Seymour
Phone:	608-838-9120
Project Number:	10370.00
Project Name:	Bob's Citgo
Project State:	Wisconsin
Sampled By (Print):	Mark R. Seymour
Sampled By (Sign):	Mark R. Seymour
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Robyn Seymour
Mail To Company:	Seymour Environmental Services
Mail To Address:	2531 Dyreson Road McFarland, Wisconsin 53558
Invoice To Contact:	Robyn Seymour
Invoice To Company:	Seymour Environmental Services
Invoice To Address:	2531 Dyreson Road McFarland, Wisconsin 53558
Invoice To Phone:	

Data Package Options (billable)
- EPA Level III
- EPA Level IV

MS/MSD
- On your sample (billable)
- NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) PRESERVATION (CODE)*

Analyses Requested

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	PVOC + naphthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-8	10/23/17	14:20	GW		N	B	X		3-40mlvB
002	MW-7	10/23/17	14:35	GW				X		
003	MW-9	10/23/17	14:50	GW				X		
004	MW-6	10/23/17	15:05	GW				X		
005	MW-10	10/23/17	15:20	GW				X		
006	MW-4	10/23/17	15:40	GW				X		
007	MW-5	10/23/17	15:55	GW				X		
008	MW-3	10/23/17	16:10	GW				X	SHEEN	
009	MW-2	10/23/17	16:50	GW				X	HOT!!	
010	MW-1	10/23/17	16:30	GW				X		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	rseymour@chorus.net
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Mark R. Seymour	10/24/17 ~~10/19/18~~ pm		
CS Logistics	10/25/17 0945	[illegible]	10/25/17 0945

PACE Project No.: 40159376

Receipt Temp = 1.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present — Intact / ~~Not Intact~~

Version 6.0 06/14/06

C019a(27Jun2006)

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Project # **WO# : 40159376**

40159376

Client Name: Seymour

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CSlog, stcr

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO1 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 10/25/17
Initials:

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☐Yes	☑No	☐N/A	8. NO MS/MSD 10/25/17
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	14. 001x3, 004x1, 005x2 10/25/17
Trip Blank Present:	☐Yes	☑No	☐N/A	15. 10/25/17
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RMR for DM **Date:** 10/25/17