RECEIVED 12-6-11

Seymour
Environmental Services, Inc.

Tel: 608-838-9120
Fax: 608-838-9121

December 1, 2011

Comm #: 53563-1032-02

Ms. Janet DiMaggio
WDNR – Bureau of Remediation and Redevelopment
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

RE: Groundwater Monitoring Update
Former Bob's Citgo - Milton, Wisconsin,
BRRTS # 03-54-000193

Dear Ms. DiMaggio:

Seymour Environmental Services, Inc. (Seymour) is pleased to present the accompanying information related to the ongoing contamination assessment for your review. Recent activities conducted include installation of three downgradient water-table monitoring wells and a round of groundwater monitoring as proposed in our June 2011 workplan. The results are presented in this document along with conclusions and recommendations.

RECENT ENVIRONMENTAL ACTIVITIES

Monitoring Well Installation and Sampling

On September 6 and 7, 2011 three monitoring wells (MW-4 thru MW-6) were installed to the west of the previously-identified groundwater contamination. The well locations are consistent with those recommended in our letter report from June 2011 and are downgradient based on the groundwater flow direction determined using the wells installed previously. Drilling was accomplished using hollow-stem augering methods. Borings were blind drilled so no soil samples were collected for analysis. Each of the borings were advanced to a depth of approximately 65 feet to facilitate well installation.

Sediments encountered during drilling were logged based on the drill cutting. Soils encountered during drilling varied from sandy clay to gravelly sand. From the surface to a depth of approximately 12 feet soils were sandy clay and/or sandy silt. This material was underlain by fine sand with silt. At a depth of approximately 30 feet below grade sediments coarsened. Sediments from 30 feet below grade to the maximum drilling depth were sand and gravels. Groundwater was encountered at a depth of approximately 56 to 58 feet.

Water-table monitoring wells were constructed in each of the three borings. The wells ranged in total depth from 55.9 to 57.9 feet. Each of the monitoring wells was constructed with a 15-foot screen. On September 8, 2011 the drillers returned to the site and developed the monitoring wells using a combination of surging, bailing, and pumping. Well construction details are summarized in Table 1. Boring logs, well construction forms, and development forms are included in Attachment A.

On September 15, 2011 groundwater monitoring was conducted at the site. Groundwater levels, product thickness, and groundwater samples were collected at each of the six wells. Additionally, the top of casing elevations for the newly installed wells were surveyed. Samples from the new wells were analyzed for volatile organic compounds (VOCs) and samples from the older wells were analyzed for PVOCs + naphthalene. The samples were submitted to PACE Analytical in Green Bay for analysis.

Groundwater level data collected on September 15, 2011 confirm that groundwater at the site is ~54 to 58 feet below grade. Free-phase product was noted in one monitoring well (MW-2). The well with free-phase product is located about 20 feet east of the tank bed. We were unable to determine the apparent thickness of the product during the monitoring because it was thicker than the bailer (3 feet). The water level data from the wells was plotted and a water-table contour map was constructed. This map indicates that groundwater flow at the site is toward the west (Figure 1). The horizontal hydraulic gradient is approximately 0.013 ft/ft. Well construction details and groundwater level data are summarized in Table 1.

Petroleum-related contaminants were present above NR140 groundwater quality standards in all of the monitoring wells at the site. MTBE was present above the NR140 PAL in all six of the monitoring wells (Figure 2A). MTBE concentrations ranged from 53.8 ug/l (MW-6) to 867 ug/l (MW-1). Benzene was noted in 5 of the 6 wells (Figure 2B). The benzene level detected in each of the well exceeded the NR140 ES and ranged from 289 ug/l (MW-6) to 7550 ug/l (MW-1). In addition to MTBE and benzene, the concentrations of the remaining PVOCs and naphthalene substantially exceeded the NR140 ES in the three monitoring wells located on the subject parcel. The most severe contamination is present near MW-1 (immediately downgradient from tank bed) where PVOC concentrations were 4 to 20 times the ES (except benzene). Intermediate contaminant levels were present at MW-2 (upgradient from the tank bed where product was noted). PVOC levels in this area were 5 to 14 times the ES (except benzene). Lower contaminant levels were noted in the monitoring well near the dispensers (MW-3). The PVOC concentrations in this area were 1 to 7 times the ES. Analytical data from the September 2011 monitoring event is compiled in Table 2 and the analytical report is included in Attachment B.

DISCUSSION OF RESULTS

The data collected to date at the site indicates that petroleum-related contamination is widespread. Soil data collected during previous drilling indicates that soil contamination exceeding WDNR standards is present around the main tank bed, the former kerosene tank bed, and both dispenser areas (Figure 3). No contamination was identified in shallow soils. The known soil contamination at the site extends from ~6 feet below grade to the groundwater (~53 feet blg). The majority of the identified soil contamination is fairly deep. Groundwater analytical data indicate that petroleum contaminants have adversely impacted the groundwater quality. However, the existing dataset is insufficient to determine both the extent of the impacted groundwater and whether the contaminant levels in the groundwater are changing over time. Data from MW-1, which has been sampled on three occasions since November 2010, seem to indicate that the contaminant levels in the groundwater immediately downgradient from the tank bed are fairly stable. Over the last year contaminant levels in this well have varied +/- 20% from the mean. No obvious temporal trend was noted for most of the contaminants. However, trimethylbenzenes and naphthalene concentrations at MW-1 have shown a small but steady increase over the last year.

RECOMMENDATIONS

Based on the data collected we believe additional contamination assessment activities are warranted at the site. Specifically we recommend that:

1) A second round of sampling should be collected at the existing monitoring network to confirm the general distribution of contaminants in the groundwater throughout the source area.
2) Additional water table monitoring wells should be installed around the identified contamination to try to delimit the lateral extent of contamination exceeding groundwater quality standards. Specifically, one well should be installed to the east of MW-2 to evaluate the extent of free-phase product and possibly identify the upgradient limit of impacted groundwater. Jim's Towing directly to the east have indicated an unwillingness to allow the installation of monitoring wells on their property. Several wells should be installed to the west of the identified contamination to characterize the downgradient contamination distribution. Suggested well locations are shown on Figure 4.
3) Conduct groundwater monitoring at the site including the new wells. If the data show that the proposed monitoring well network is sufficient to characterize the distribution of groundwater contamination then four rounds of quarterly monitoring should be performed to assess the temporal changes in contaminant levels.
4) Perform product removal during the monitoring events and collect soil and product samples to evaluate the mobility potential of the free-phase product at the site.

If you have any questions about the site please feel free to give Mark Fryman or me a call at (608) 838-9120.

Sincerely,
Seymour Environmental Services

Robyn Seymour

Robyn Seymour
Hydrogeologist

Enclosures: Tables (3)
Figures (4)
Attachments (2)

cc: Mr. Robert Richardson – RP
Mr. Ralph Smith - PECFA

TABLES

TABLE 1
SUMMARY OF WELL CONSRUCTION INFORMATION AND WATER LEVEL DATA
Former 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	10	821.94	811.94
MW-2	2/23/2011	873.96	61.99	10	821.97	811.97
MW-3	2/23/2011	875.05	63.05	10	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

GROUNDWATER LEVEL DATA

Date	11/4/10			3/3/11			9/15/11		
WELL	GW Depth	Product	GW Elev.	GW Depth	Product	GW Elev.	GW Depth	Product	GW Elev.
MW-1	53.15	0	821.34	53.92	0	820.57	54.85	0	819.64
MW-2	--	--	--	51.18	0	822.78	59.17	>3 ft	unknown
MW-3	--	--	--	54.02	0	821.03	54.67	0	820.38
MW-4	--	--	--	--	--	--	55.90	0	818.70
MW-5	--	--	--	--	--	--	57.85	0	817.35
MW-6	--	--	--	--	--	--	57.06	0	817.74

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA (Sept. 15, 2011)
Former Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

Sample I.D.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	NR140	
Select VOCs							ES	PAL
Benzene	**7550**	**4760**	**2670**	<0.41	**623**	**289**	5	0.5
1,2 Dichloroethane	na	na	na	**2.3**	<1.8	<0.36	5	0.5
Ethylbenzene	**2540**	**3720**	**2610**	<0.54	58.5	75.6	700	140
Methyl-tert-butyl ether	**867**	**280**	**74.3**	**154**	**776**	**53.8**	60	12
Toluene	**15300**	**10900**	**6420**	<0.67	6.3	1.7	800	160
1,3,5 Trimethylbenzenes	443	758	622	<0.83	<4.2	18.9	ns	ns
1,2,4 Trimethylbenzenes	1710	2480	2310	<0.97	<4.8	8.3	ns	ns
Total Trimethylbenzenes	**2153**	**3238**	**2932**	<1.80	<9.0	27.2	480	96
Xylenes, -m, -p	8250	11500	7560	<1.8	<9.0	3.3	ns	ns
Xylene, -o	3910	5050	3100	<0.83	271	3.6	ns	ns
Total Xylenes	**12160**	**16550**	**10660**	<2.63	271	6.9	2000	400
Naphthalene	**640**	**891**	**680**	<0.89	<4.4	**19.2**	100	10
sec-Butylbenzene	na	na	na	<0.89	<4.4	<0.89	ns	ns
Isopropylbenzene	na	na	na	<0.59	<3.0	7.3	ns	ns
n-Propylbenzene	na	na	na	<0.81	<4.0	7.3	ns	ns
p-Isopropyltoluene	na	na	na	<0.67	<3.4	<0.67	ns	ns
Methylene Chloride	na	na	na	<0.43	<2.2	<0.43	5	0.5
Chloromethane	na	na	na	0.33	<1.2	<0.24	30	3

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

TABLE 3 (page 1 of 2)
SUMMARY OF GROUNDWATER ANALYTICAL DATA
Former Bob's CITGO
602 West Madison Avenue - Milton, Wisconsin

Sample I.D.	DATE	Benzene	1,2 Dichloroethane	Ethylbenzene	Methyl-tert-butyl ether	Toluene	1,3,5 Trimethylbenzene	1,2,4 Trimethylbenzene	Total Trimethylbenzenes	Xylenes, -m, -p	Xylene, -o	Total Xylenes	Naphthalene	sec-Butylbenzene	Isopropylbenzene	n-Propylbenzene	p-Isopropyltoluene	Methylene Chloride	Chloromethane
MW-1	11/04/10	**6950**	<72.0	**2380**	**912**	**17000**	284	1280	**1564**	7730	3410	**11140**	**426**	<178	<118	<162	<134	<86.0	<48.0
	03/03/11	**8700**	<72.0	**2810**	**914**	**18300**	416	1720	**2136**	9460	4190	**13650**	**478**	<178	<118	208	<134	113 *	<48.0
	09/15/11	**7550**	na	**2540**	**867**	**15300**	443	1710	**2153**	8250	3910	**12160**	**640**	na	na	na	na	na	na
MW-2	03/03/11	**5260**	<36.0	**3270**	**284**	**11100**	577	2310	**2887**	10700	4570	**15270**	**529**	<89.0	101	294	<67.0	66.5 *	<24.0
	09/15/11	**4760**	na	**3720**	**280**	**10900**	758	2480	**3238**	11500	5050	**16550**	**891**	na	na	na	na	na	na
MW-3	03/03/11	**3150**	<45.0	**3230**	<76.2	**10500**	568	2320	**2888**	9940	4190	**14130**	**589**	<111	105	284	<83.8	65.6 *	<30.0
	09/15/11	**2670**	na	**2610**	**74.3**	**6420**	622	2310	**2932**	7560	3100	**10660**	**680**	na	na	na	na	na	na
MW-4	09/15/11	<0.41	**2.3**	<0.54	**154**	<0.67	<0.83	<0.97	<1.80	<1.8	<0.83	<2.63	<0.89	<0.89	<0.59	<0.81	<0.67	<0.43	0.33
MW-5	09/15/11	**623**	<1.8	58.5	**776**	6.3	<4.2	<4.8	<9.0	<9.0	271	271	<4.4	<4.4	<3.0	<4.0	<3.4	<2.2	<1.2
MW-6	09/15/11	**289**	<0.36	75.6	**53.8**	1.7	18.9	8.3	27.2	3.3	3.6	6.9	**19.2**	<0.89	7.3	7.3	<0.67	<0.43	<0.24
NR140	ES	5	5	700	60	800	ns	ns	480	ns	ns	2000	100	ns	ns	ns	ns	5	30
	PAL	0.5	0.5	140	12	160	ns	ns	96	ns	ns	400	10	ns	ns	ns	ns	0.5	3

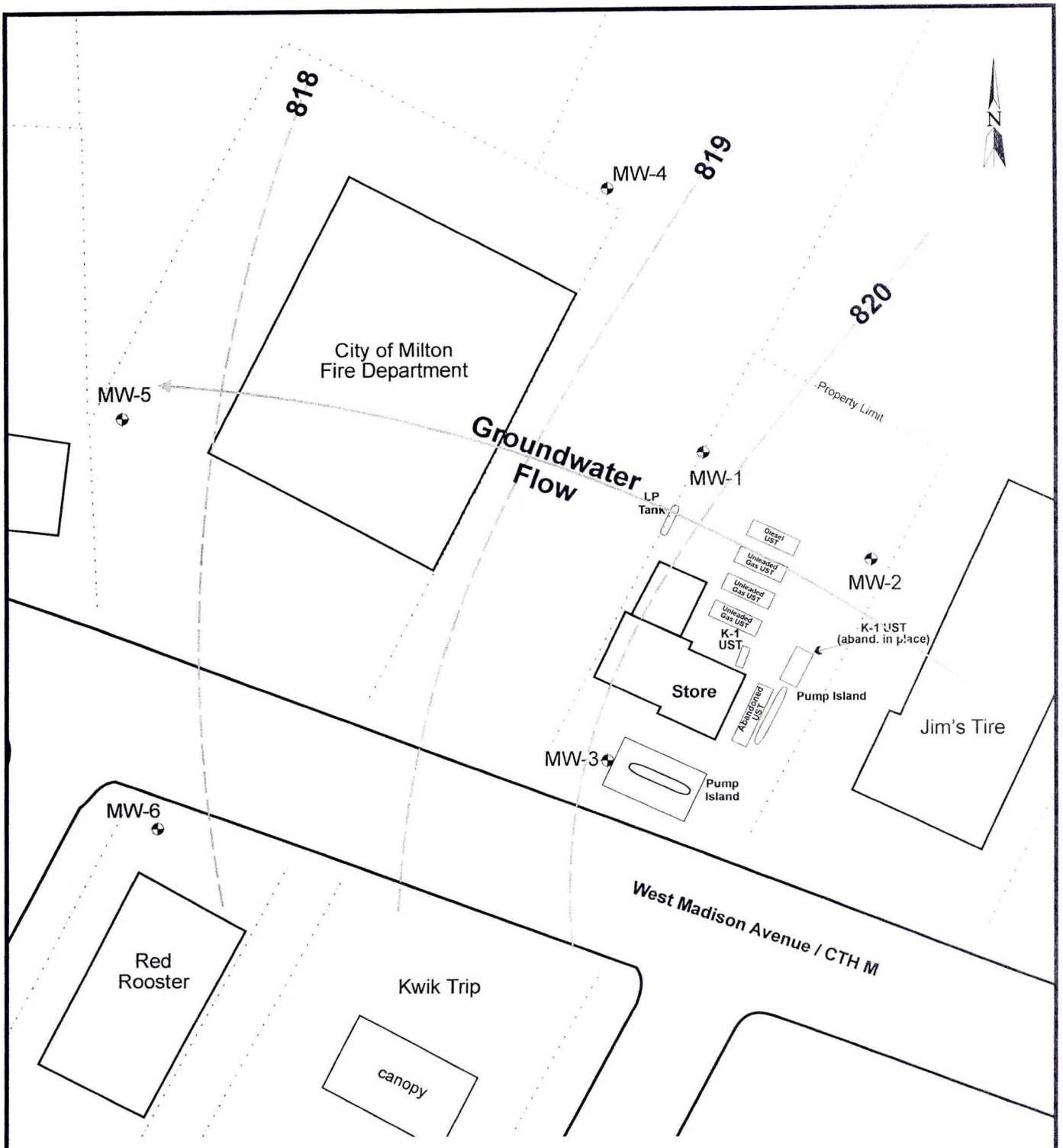
- All results are listed in ug/l
- na = not analyzed
- ns = no standard established
- NR140 PAL = Preventative Action Limit (exceedances bold)
- NR140 ES = Enforcement Standard (exceedances shaded)
* - Concentation estimated by laboratory / compounds detected in equipment blank

TABLE 3 (page 2 of 2)
SUMMARY OF GROUNDWATER ANALYTICAL DATA
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 bold)
- NR140 ES = Enforcement Standard (exceedances shaded)
- Italicized values below limit of qualtitation so were estimated by laboratory

FIGURES



LEGEND

MW-1 - Monitoring Well

0 50' 100'

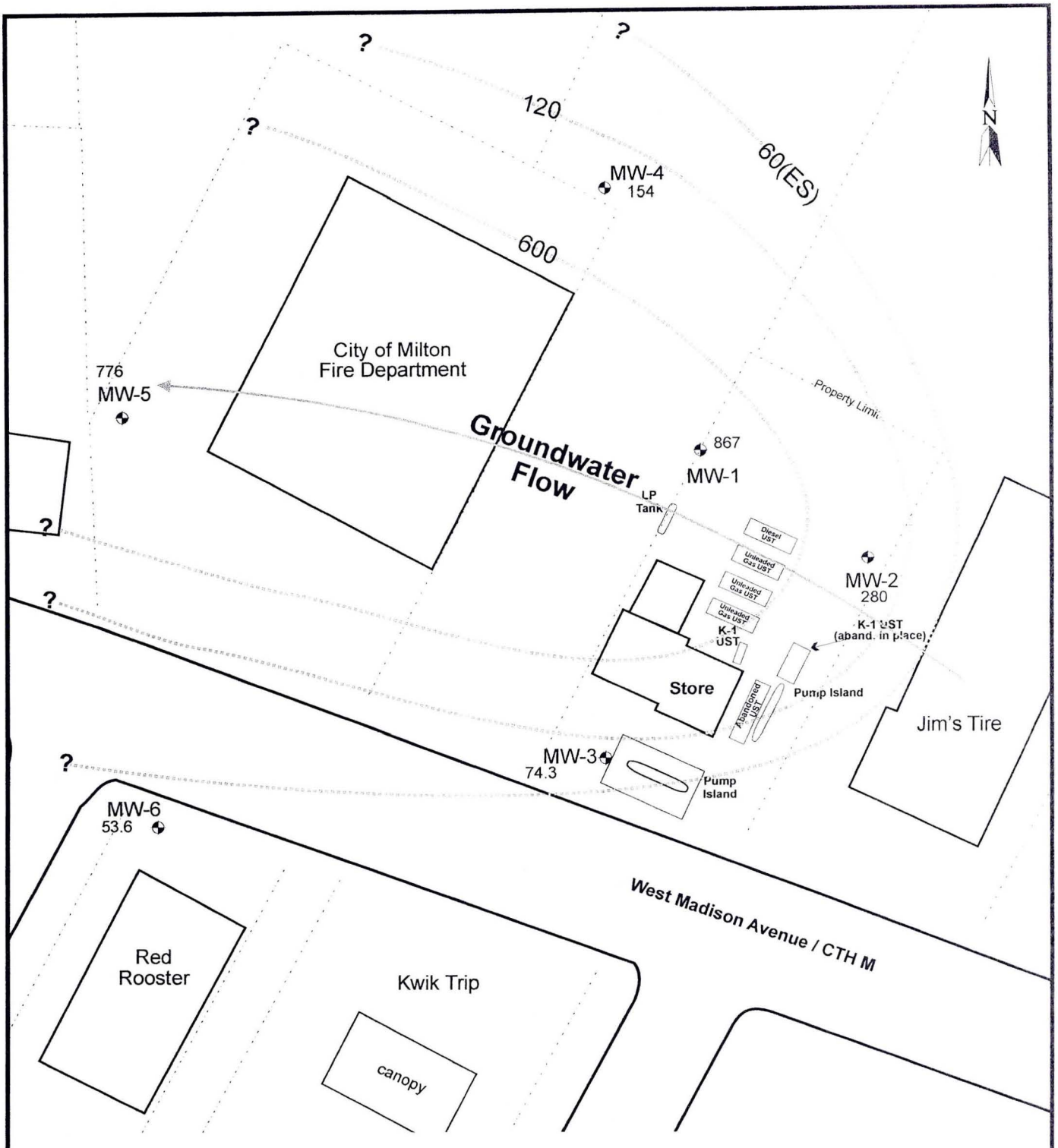
1 INCH = 50 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\Bob's-basemap.cdr
DATE: 10/21/2011
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

WATER-TABLE CONTOUR MAP (09/15/2011)
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE 1



LEGEND

MW-1 - Monitoring Well

0 50' 100'

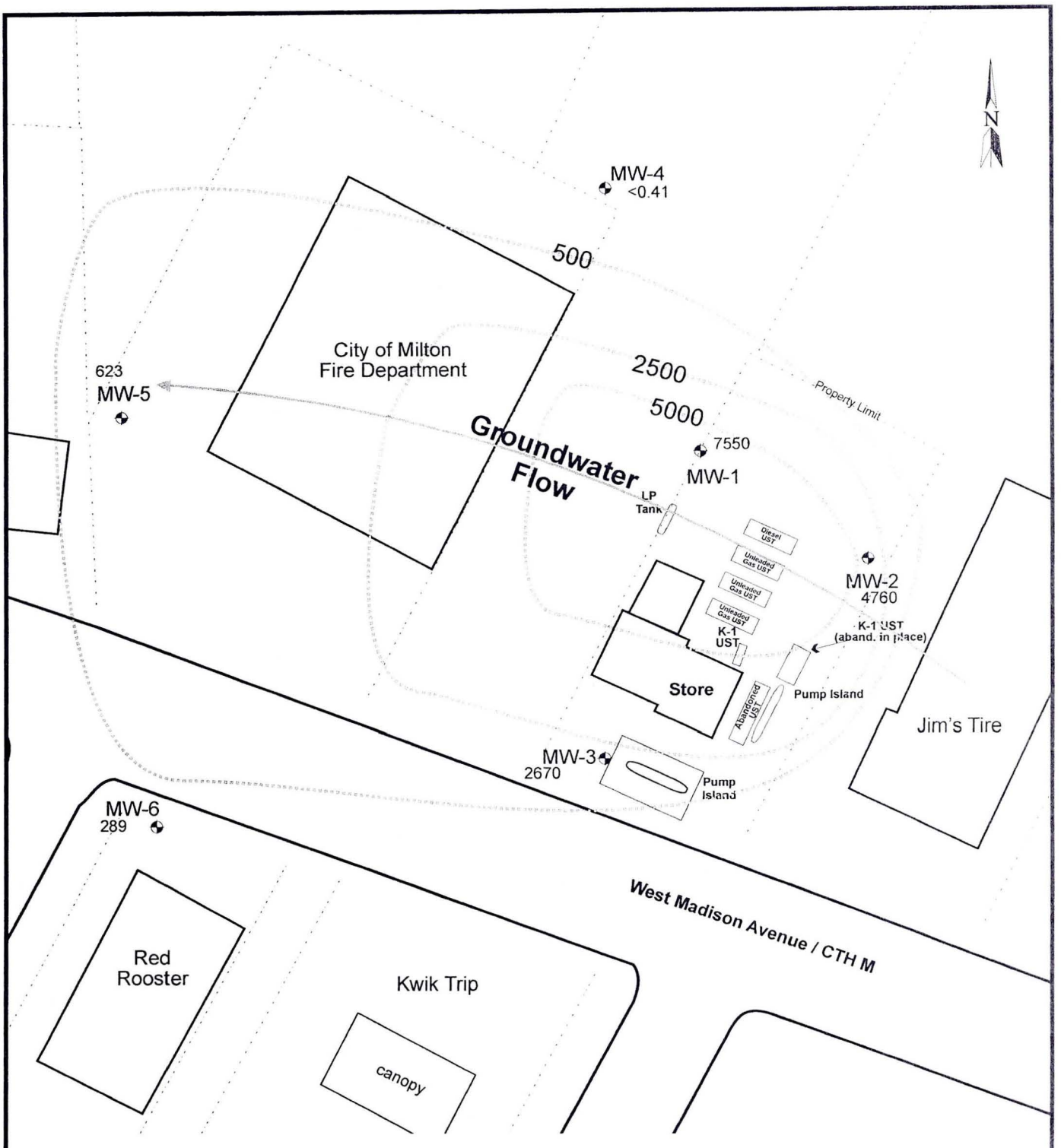
1 INCH = 50 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\ Bob's-basemap.cdr
DATE: 10/21/2011
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

MTBE IN GROUNDWATER (09/15/2011)
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE
2A



LEGEND

MW-1 - Monitoring Well

0 50' 100'

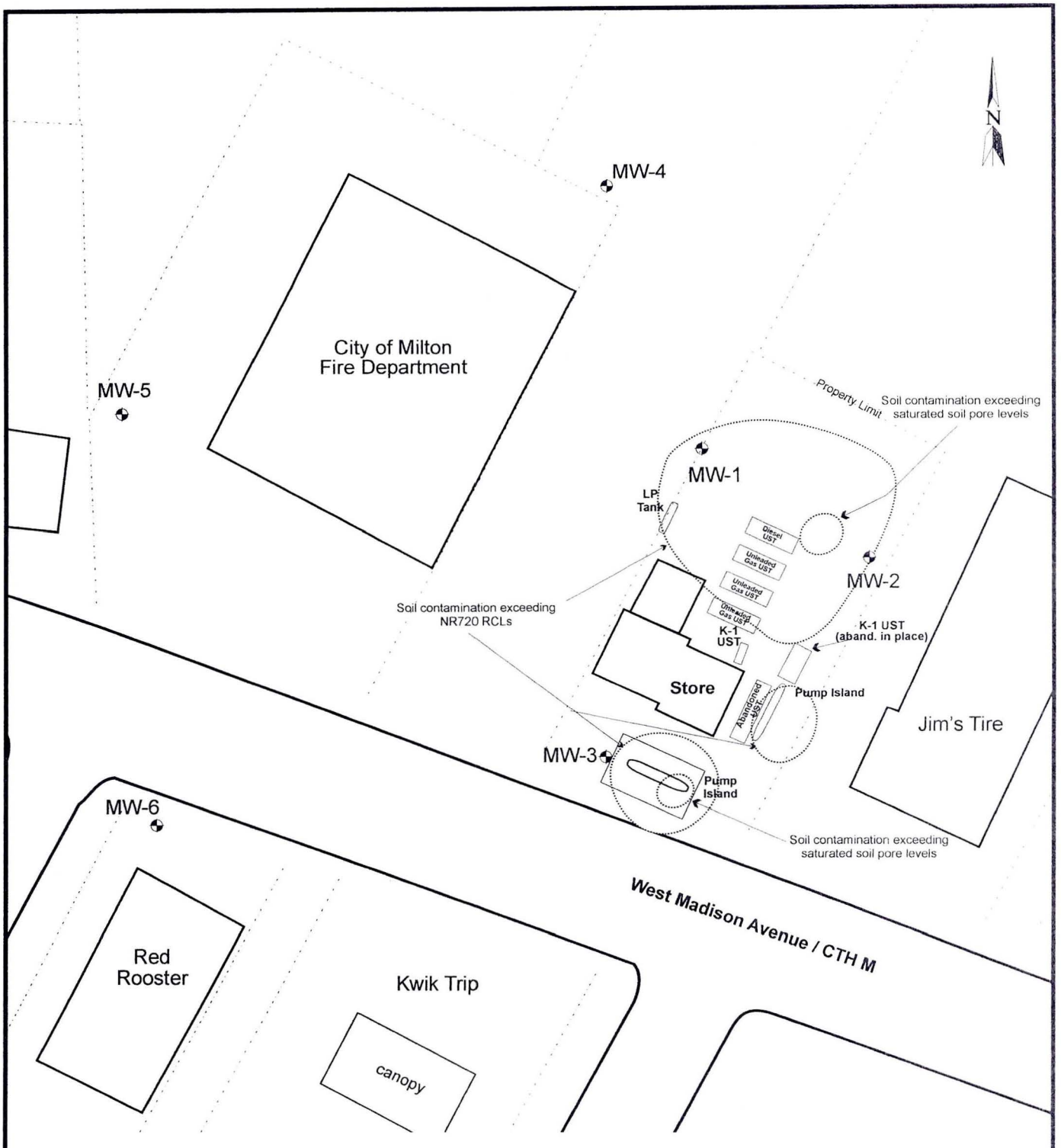
1 INCH = 50 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\ Bob's-basemap.cdr
DATE: 10/21/2011
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

BENZENE IN GROUNDWATER (09/15/2011)
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE
2B



LEGEND

MW-1 - Monitoring Well

0 50' 100'

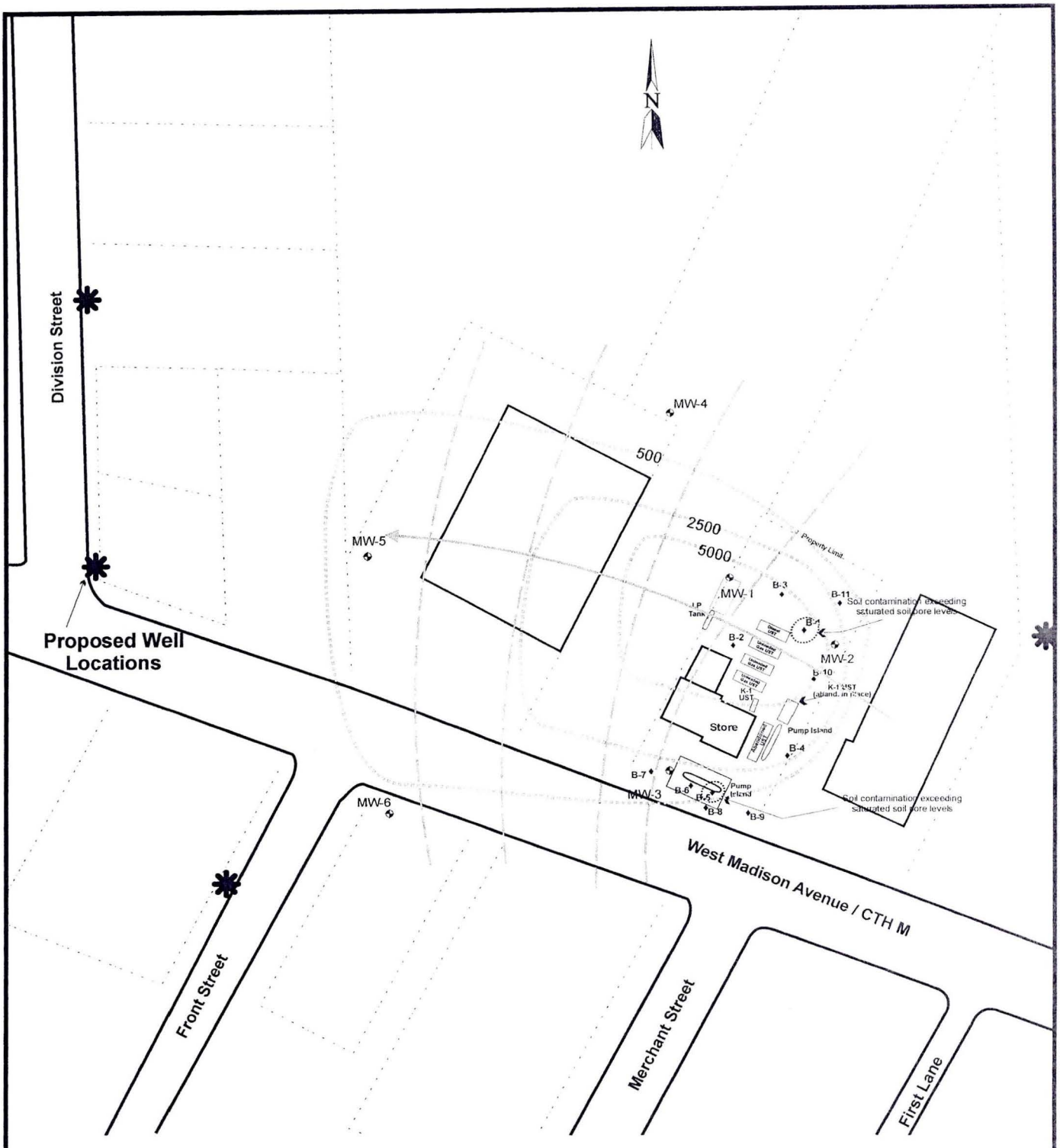
1 INCH = 50 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\Bob's-basemap.cdr
DATE: 10/21/2011
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

IDENTIFIED SOIL CONTAMINATION
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE 3



LEGEND

♦ - Geoprobe Location

MW-1 ⊕ - Monitoring Well

0 80' 160'

1 INCH = 80 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\BOBSCITGO\ Bob's-basemap.cdr
DATE: 10/21/2011
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

PROPOSED SAMPLING LOCATIONS
Bob's Citgo
602 W. Madison Avenue
Milton, Wisconsin

FIGURE 4

ATTACHMENT A

WELL CONSTRUCTION AND DEVELOPMENT FORMS

BADGER STATE DRILLING CO., INC.

STOUGHTON, WISCONSIN

FIELD BORING LOG

Sheet 1 Of 2

FOR Boos Citco

LOCATION Milton WI ELEV.

Job No. 5656

Boring No. MW-1

GROUND WATER

While drilling 56' Time after drilling

Before casing removal Depth to water

After casing removal 56' Depth to cave-in

Start 9-6-2011

Unit D-120

Chief KD, RW

Casing/Probe 2"

Weight 140lb

Drop 30"

Sample No.	Moisture	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Unconfined Strength	Boulders	Blows on Casing Size	Blows on Probe Size	Drilling Method
						Blind Drill			4¼	2	HSA
						4" Asphalt 8" Base					
						Brn fine sand t- silt					
						Brn fine sand with fine gravel t- silt					
						EOB 64'6					
						Well set 64'					
						15' Screen					
						8 bags SAND 47'					
						1 F SAND 46'					
						15 Chips 2'					
						64'6					

Well # VY661

Flush Mount

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Bob's Citco	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VY661 / DNR Well ID No.: ____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09 06 2011 (m m d d y y y y)
Type of Well: Well Code 1	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Bob McCumber / BSD
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation: Flush ft. MSL
B. Well casing, top elevation: -2 ft. MSL
C. Land surface elevation: _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 / Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or -2 ft.
F. Fine sand, top _____ ft. MSL or -46 ft.
G. Filter pack, top _____ ft. MSL or -47 ft.
H. Screen joint, top _____ ft. MSL or -49 ft.
I. Well bottom _____ ft. MSL or -64 ft.
J. Filter pack, bottom _____ ft. MSL or -64.6 ft.
K. Borehole, bottom _____ ft. MSL or -64.6 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9.6 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Sand
Bentonite ☐ 30 / Other ☒ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. 40-60 Ohio
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. 1.0-2.0 Ohio
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature: [signature] Firm: Badger State Drilling, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
B&S Citgo	Rock	MW-4
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	___	_____ / ____

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☒	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 69.0 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well 15.__ gal.

8. Volume of water added (if any) ____.__ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 56.00 ft.	58.5 ft.
Date	b. 09,08,2021 (m m d d y y y y)	09,08,2021
Time	c. 6:30 ☒ a.m. ☐ p.m.	7:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0. inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: R W Robert Last Name: McCumber
Firm: BSD

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Mark Gacwick
Firm: Badger State Drilling, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

BADGER STATE DRILLING CO., INC.

STOUGHTON, WISCONSIN

FOR Bob's Citco

LOCATION Milton WI ELEV.

FIELD BORING LOG

Sheet 1 Of 2

Job No. @ 5650

Boring No. MW-5

GROUND WATER

While drilling 58' Time after drilling

Before casing removal Depth to water

After casing removal Depth to cave-in

Start 9-6-11

Unit D-20

Chief KD, BM

Casing/Probe 2"

Weight 140#

Drop 30"

Sample No.	Moisture	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Unconfined Strength	Boulders	Blows on Casing Size	Blows on Probe Size	Drilling Method
						Blind Drill			4¼	2	HSA
						4" Asphalt 8" Base course					
						DK brn silty clay tr fine sand					
						Brn fine sand tr silt					
						Brn fine sand with fine to med gravel tr silt					
						EOB 65'					
						Well set 6/6					
						15' Screen					
						7 Sand 4/7					
						1 F Sand 4/6					
						22 Chips 2					
						Flush					

5 10 15 20 25 30 35 40 45 50 65

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Bass Citco	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VV662 / DNR Well ID No.: ____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09/07/2011 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Bob McCumber / BSD
Distance from Waste/Source: _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1016 ft. MSL
B. Well casing, top elevation 1012 ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 4.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ OW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

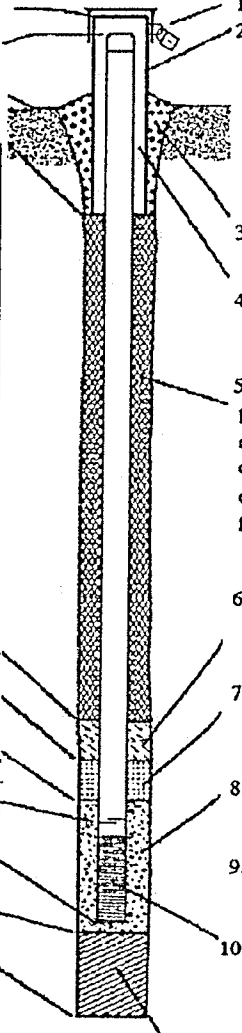
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or 0.0 ft.
F. Fine sand, top _____ ft. MSL or 45 ft.
G. Filter pack, top _____ ft. MSL or 47 ft.
H. Screen joint, top _____ ft. MSL or 59.5 ft.
I. Well bottom _____ ft. MSL or 64.5 ft.
J. Filter pack, bottom _____ ft. MSL or 65 ft.
K. Borehole, bottom _____ ft. MSL or 65 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2 in.
N. I.D. well casing 2 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 6 ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. OHIO #4000
b. Volume added 3.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. OHIO #5
b. Volume added 4.2 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

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

Signature: [signature] Firm: Badger State Drilling, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Bob's Citgo	Rock	MW-5
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☒ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 64.5 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 10.__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 58.5 ft.	59.__ ft.
Date	b. 09,08,2011 (m m d d y y y y)	09,08,2011 (m m d d y y y y)
Time	c. 7:30 ☒ a.m. ☐ p.m.	8:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	8.__ inches	0.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ ~~15~~ (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	___.__ mg/l	___.__ mg/l
15. COD	___.__ mg/l	___.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: RM Robert Last Name: McCumber
Firm: BSD

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Mark Garwick
Firm: Badger State Drilling, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

BADGER STATE DRILLING CO., INC.

STOUGHTON, WISCONSIN

FOR Bob's Citco

LOCATION Milton WI

FIELD BORING LOG

Sheet 1 Of 1

Job No. 5656

Boring No. MW-6

ELEV.

GROUND WATER

While drilling — Time after drilling

Before casing removal — Depth to water

After casing removal — Depth to cave-in

Start 9-7-2011

Unit D-120

Chief KD RM

Sample No.	Moisture	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Unconfined Strength	Boulders	Blows on Casing Size	Blows on Probe Size	Drilling Method
						Casing/Probe 2" Weight 140# Drop 30"					
						BLIND DRILL			4¼	2	HSA
						↓ Dark Br. Clay Some Silt Little F Sand					
						→ Br. F-M Sand, Little Silt					
						√ Gravel F-C					
						↑ EOB 65' Set well 64.5'					
						E.O.B. 65'					
						WELL @ 64.5' VY663					
						15' SCREEN					
						7 FILTER 47.5'					
						1 FINE 46.5'					
						24 CHIPS 1'					
						FLUSH MOUNT					
						VY663					

65'

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Bob's Citco	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: VY663 / DNR Well ID No.: ____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 08/07/2014 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Bob McCumber BSD
Distance from Waste/Source: _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

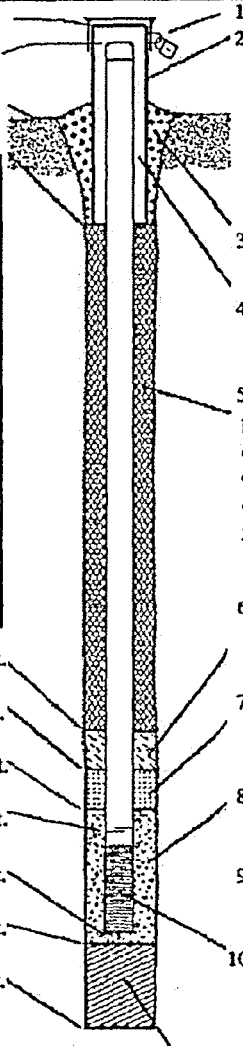
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top _____ ft. MSL or _____ ft.
H. Screen joint, top _____ ft. MSL or _____ ft.
I. Well bottom _____ ft. MSL or _____ ft.
J. Filter pack, bottom _____ ft. MSL or _____ ft.
K. Borehole, bottom _____ ft. MSL or _____ ft.
L. Borehole, diameter _____ in.
M. O.D. well casing _____ in.
N. I.D. well casing _____ in.

1. Cap and locking? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☐ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: _____
a. Screen type: Factory cut ☐ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: _____ in.
d. Slotted length: _____ ft.
11. Backfill material (below filter pack): None ☐ 14 / Other ☐ _____



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

Signature _____ Firm Badger State Drilling, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Bob's Citco	Rock	MW-6
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	___	_____	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☒	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 64.5 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 106 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 59.__ ft.	59.__ ft.
Date	b. 09,08,2011 (m m d d y y y y)	07,08,2016 (m m d d y y y y)
Time	c. 7:__ ☒ a.m. ☐ p.m.	7:3 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	4.__ inches	0.__ inches
13. Water clarity	Clear ☐ 10 Turbid ~~☒ 15~~ (Describe)	Clear ☐ 20 Turbid ~~☒ 25~~ (Describe)

Fill in if drilling fluids ~~were used and well is at solid waste facility~~:

14. Total suspended solids	___.__ mg/l	___.__ mg/l
15. COD	___.__ mg/l	___.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: RM Last Name: McCumber
Firm: B&D

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Mark Garwick
Print Name: Mark Garwick
Firm: Badger State Drilling, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

ATTACHMENT B

LABORATORY REPORTS

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

September 26, 2011

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

RE: Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Dear Robyn Seymour:
Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko for
Alee Her
alee.her@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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

SAMPLE SUMMARY

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4050933001	MW-1	Water	09/15/11 00:00	09/16/11 10:30
4050933002	MW-2	Water	09/15/11 00:00	09/16/11 10:30
4050933003	MW-3	Water	09/15/11 00:00	09/16/11 10:30
4050933004	MW-4	Water	09/15/11 00:00	09/16/11 10:30
4050933005	MW-5	Water	09/15/11 00:00	09/16/11 10:30
4050933006	MW-6	Water	09/15/11 00:00	09/16/11 10:30

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

SAMPLE ANALYTE COUNT

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4050933001	**MW-1**	WI MOD GRO	SES	10	PASI-G
4050933002	**MW-2**	WI MOD GRO	SES	10	PASI-G
4050933003	**MW-3**	WI MOD GRO	SES	10	PASI-G
4050933004	**MW-4**	EPA 8260	SMT	64	PASI-G
4050933005	**MW-5**	EPA 8260	SMT	64	PASI-G
4050933006	**MW-6**	EPA 8260	SMT	64	PASI-G

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

PROJECT NARRATIVE

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: September 26, 2011

General Information:
3 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/7234

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Method: EPA 8260
Description: 8260 MSV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: September 26, 2011

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-1 **Lab ID: 4050933001** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**7550**	ug/L	125	48.6	125		09/22/11 15:49	71-43-2	
Ethylbenzene	**2540**	ug/L	125	51.8	125		09/22/11 15:49	100-41-4	
Methyl-tert-butyl ether	**867**	ug/L	125	47.6	125		09/22/11 15:49	1634-04-4	
Naphthalene	**640**	ug/L	125	50.6	125		09/22/11 15:49	91-20-3	
Toluene	**15300**	ug/L	125	52.0	125		09/22/11 15:49	108-88-3	
1,2,4-Trimethylbenzene	**1710**	ug/L	125	53.8	125		09/22/11 15:49	95-63-6	
1,3,5-Trimethylbenzene	**443**	ug/L	125	49.4	125		09/22/11 15:49	108-67-8	
m&p-Xylene	**8250**	ug/L	250	109	125		09/22/11 15:49	179601-23-1	
o-Xylene	**3910**	ug/L	125	47.6	125		09/22/11 15:49	95-47-6	
a,a,a-Trifluorotoluene (S)	104	%.	80-120		125		09/22/11 15:49	98-08-8	

Sample: MW-2 **Lab ID: 4050933002** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**4760**	ug/L	100	38.9	100		09/22/11 15:24	71-43-2	
Ethylbenzene	**3720**	ug/L	100	41.4	100		09/22/11 15:24	100-41-4	
Methyl-tert-butyl ether	**280**	ug/L	100	38.1	100		09/22/11 15:24	1634-04-4	
Naphthalene	**891**	ug/L	100	40.5	100		09/22/11 15:24	91-20-3	
Toluene	**10900**	ug/L	100	41.6	100		09/22/11 15:24	108-88-3	
1,2,4-Trimethylbenzene	**2840**	ug/L	100	43.0	100		09/22/11 15:24	95-63-6	
1,3,5-Trimethylbenzene	**758**	ug/L	100	39.5	100		09/22/11 15:24	108-67-8	
m&p-Xylene	**11500**	ug/L	200	87.1	100		09/22/11 15:24	179601-23-1	
o-Xylene	**5050**	ug/L	100	38.1	100		09/22/11 15:24	95-47-6	
a,a,a-Trifluorotoluene (S)	101	%.	80-120		100		09/22/11 15:24	98-08-8	

Sample: MW-3 **Lab ID: 4050933003** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**2670**	ug/L	50.0	19.4	50		09/22/11 14:59	71-43-2	
Ethylbenzene	**2610**	ug/L	50.0	20.7	50		09/22/11 14:59	100-41-4	
Methyl-tert-butyl ether	**74.3**	ug/L	50.0	19.0	50		09/22/11 14:59	1634-04-4	
Naphthalene	**680**	ug/L	50.0	20.2	50		09/22/11 14:59	91-20-3	
Toluene	**6420**	ug/L	50.0	20.8	50		09/22/11 14:59	108-88-3	
1,2,4-Trimethylbenzene	**2310**	ug/L	50.0	21.5	50		09/22/11 14:59	95-63-6	
1,3,5-Trimethylbenzene	**622**	ug/L	50.0	19.8	50		09/22/11 14:59	108-67-8	
m&p-Xylene	**7560**	ug/L	100	43.6	50		09/22/11 14:59	179601-23-1	
o-Xylene	**3100**	ug/L	50.0	19.0	50		09/22/11 14:59	95-47-6	
a,a,a-Trifluorotoluene (S)	102	%.	80-120		50		09/22/11 14:59	98-08-8	

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-4 **Lab ID: 4050933004** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.41**	ug/L	1.0	0.41	1		09/20/11 00:49	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		09/20/11 00:49	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		09/20/11 00:49	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		09/20/11 00:49	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		09/20/11 00:49	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		09/20/11 00:49	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		09/20/11 00:49	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		09/20/11 00:49	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		09/20/11 00:49	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		09/20/11 00:49	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		09/20/11 00:49	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		09/20/11 00:49	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/20/11 00:49	67-66-3	
Chloromethane	**0.33J**	ug/L	1.0	0.24	1		09/20/11 00:49	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		09/20/11 00:49	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		09/20/11 00:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		09/20/11 00:49	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		09/20/11 00:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		09/20/11 00:49	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		09/20/11 00:49	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 00:49	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		09/20/11 00:49	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		09/20/11 00:49	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		09/20/11 00:49	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		09/20/11 00:49	75-34-3	
1,2-Dichloroethane	**2.3**	ug/L	1.0	0.36	1		09/20/11 00:49	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		09/20/11 00:49	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 00:49	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		09/20/11 00:49	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		09/20/11 00:49	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		09/20/11 00:49	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		09/20/11 00:49	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		09/20/11 00:49	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		09/20/11 00:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		09/20/11 00:49	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		09/20/11 00:49	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		09/20/11 00:49	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		09/20/11 00:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		09/20/11 00:49	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		09/20/11 00:49	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		09/20/11 00:49	75-09-2	
Methyl-tert-butyl ether	**154**	ug/L	1.0	0.61	1		09/20/11 00:49	1634-04-4	
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		09/20/11 00:49	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		09/20/11 00:49	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		09/20/11 00:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		09/20/11 00:49	630-20-6	

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-4 **Lab ID: 4050933004** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		09/20/11 00:49	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		09/20/11 00:49	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		09/20/11 00:49	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		09/20/11 00:49	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		09/20/11 00:49	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		09/20/11 00:49	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		09/20/11 00:49	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		09/20/11 00:49	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		09/20/11 00:49	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		09/20/11 00:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		09/20/11 00:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 00:49	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/20/11 00:49	75-01-4	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		09/20/11 00:49	179601-23-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 00:49	95-47-6	
4-Bromofluorobenzene (S)	102	%.	70-130		1		09/20/11 00:49	460-00-4	
Dibromofluoromethane (S)	95	%.	70-130		1		09/20/11 00:49	1868-53-7	
Toluene-d8 (S)	106	%.	70-130		1		09/20/11 00:49	2037-26-5	

Sample: MW-5 **Lab ID: 4050933005** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**623**	ug/L	5.0	2.0	5		09/20/11 07:14	71-43-2	
Bromobenzene	**<4.1**	ug/L	5.0	4.1	5		09/20/11 07:14	108-86-1	
Bromochloromethane	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	74-97-5	
Bromodichloromethane	**<2.8**	ug/L	5.0	2.8	5		09/20/11 07:14	75-27-4	
Bromoform	**<4.7**	ug/L	5.0	4.7	5		09/20/11 07:14	75-25-2	
Bromomethane	**<4.6**	ug/L	5.0	4.6	5		09/20/11 07:14	74-83-9	
n-Butylbenzene	**<4.6**	ug/L	5.0	4.6	5		09/20/11 07:14	104-51-8	
sec-Butylbenzene	**<4.4**	ug/L	25.0	4.4	5		09/20/11 07:14	135-98-8	
tert-Butylbenzene	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	98-06-6	
Carbon tetrachloride	**<2.4**	ug/L	5.0	2.4	5		09/20/11 07:14	56-23-5	
Chlorobenzene	**<2.0**	ug/L	5.0	2.0	5		09/20/11 07:14	108-90-7	
Chloroethane	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	75-00-3	
Chloroform	**<6.5**	ug/L	25.0	6.5	5		09/20/11 07:14	67-66-3	
Chloromethane	**<1.2**	ug/L	5.0	1.2	5		09/20/11 07:14	74-87-3	
2-Chlorotoluene	**<4.2**	ug/L	5.0	4.2	5		09/20/11 07:14	95-49-8	
4-Chlorotoluene	**<3.7**	ug/L	5.0	3.7	5		09/20/11 07:14	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.4**	ug/L	25.0	8.4	5		09/20/11 07:14	96-12-8	
Dibromochloromethane	**<4.0**	ug/L	5.0	4.0	5		09/20/11 07:14	124-48-1	
1,2-Dibromoethane (EDB)	**<2.8**	ug/L	5.0	2.8	5		09/20/11 07:14	106-93-4	
Dibromomethane	**<3.0**	ug/L	5.0	3.0	5		09/20/11 07:14	74-95-3	

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-5 **Lab ID: 4050933005** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**<4.2**	ug/L	5.0	4.2	5		09/20/11 07:14	95-50-1	
1,3-Dichlorobenzene	**<4.4**	ug/L	5.0	4.4	5		09/20/11 07:14	541-73-1	
1,4-Dichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		09/20/11 07:14	75-71-8	
1,1-Dichloroethane	**<3.8**	ug/L	5.0	3.8	5		09/20/11 07:14	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/L	5.0	1.8	5		09/20/11 07:14	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/L	5.0	2.8	5		09/20/11 07:14	75-35-4	
cis-1,2-Dichloroethene	**<4.2**	ug/L	5.0	4.2	5		09/20/11 07:14	156-59-2	
trans-1,2-Dichloroethene	**<4.4**	ug/L	5.0	4.4	5		09/20/11 07:14	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/L	5.0	2.4	5		09/20/11 07:14	78-87-5	
1,3-Dichloropropane	**<3.0**	ug/L	5.0	3.0	5		09/20/11 07:14	142-28-9	
2,2-Dichloropropane	**<3.1**	ug/L	5.0	3.1	5		09/20/11 07:14	594-20-7	
1,1-Dichloropropene	**<3.8**	ug/L	5.0	3.8	5		09/20/11 07:14	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	5.0	1.0	5		09/20/11 07:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.95**	ug/L	5.0	0.95	5		09/20/11 07:14	10061-02-6	
Diisopropyl ether	**<3.8**	ug/L	5.0	3.8	5		09/20/11 07:14	108-20-3	
Ethylbenzene	**58.5**	ug/L	5.0	2.7	5		09/20/11 07:14	100-41-4	
Hexachloro-1,3-butadiene	**<3.4**	ug/L	25.0	3.4	5		09/20/11 07:14	87-68-3	
Isopropylbenzene (Cumene)	**<3.0**	ug/L	5.0	3.0	5		09/20/11 07:14	98-82-8	
p-Isopropyltoluene	**<3.4**	ug/L	5.0	3.4	5		09/20/11 07:14	99-87-6	
Methylene Chloride	**<2.2**	ug/L	5.0	2.2	5		09/20/11 07:14	75-09-2	
Methyl-tert-butyl ether	**776**	ug/L	5.0	3.0	5		09/20/11 07:14	1634-04-4	
Naphthalene	**<4.4**	ug/L	25.0	4.4	5		09/20/11 07:14	91-20-3	
n-Propylbenzene	**<4.0**	ug/L	5.0	4.0	5		09/20/11 07:14	103-65-1	
Styrene	**<4.3**	ug/L	5.0	4.3	5		09/20/11 07:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<4.6**	ug/L	5.0	4.6	5		09/20/11 07:14	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	5.0	1.0	5		09/20/11 07:14	79-34-5	
Tetrachloroethene	**<2.2**	ug/L	5.0	2.2	5		09/20/11 07:14	127-18-4	
Toluene	**6.3**	ug/L	5.0	3.4	5		09/20/11 07:14	108-88-3	
1,2,3-Trichlorobenzene	**<3.7**	ug/L	5.0	3.7	5		09/20/11 07:14	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	120-82-1	
1,1,1-Trichloroethane	**<4.5**	ug/L	5.0	4.5	5		09/20/11 07:14	71-55-6	
1,1,2-Trichloroethane	**<2.1**	ug/L	5.0	2.1	5		09/20/11 07:14	79-00-5	
Trichloroethene	**<2.4**	ug/L	5.0	2.4	5		09/20/11 07:14	79-01-6	
Trichlorofluoromethane	**<4.0**	ug/L	5.0	4.0	5		09/20/11 07:14	75-69-4	
1,2,3-Trichloropropane	**<5.0**	ug/L	5.0	5.0	5		09/20/11 07:14	96-18-4	
1,2,4-Trimethylbenzene	**<4.8**	ug/L	5.0	4.8	5		09/20/11 07:14	95-63-6	
1,3,5-Trimethylbenzene	**<4.2**	ug/L	5.0	4.2	5		09/20/11 07:14	108-67-8	
Vinyl chloride	**<0.90**	ug/L	5.0	0.90	5		09/20/11 07:14	75-01-4	
m&p-Xylene	**<9.0**	ug/L	10.0	9.0	5		09/20/11 07:14	179601-23-1	
o-Xylene	**271**	ug/L	5.0	4.2	5		09/20/11 07:14	95-47-6	
4-Bromofluorobenzene (S)	103	%.	70-130		5		09/20/11 07:14	460-00-4	
Dibromofluoromethane (S)	95	%.	70-130		5		09/20/11 07:14	1868-53-7	
Toluene-d8 (S)	106	%.	70-130		5		09/20/11 07:14	2037-26-5	

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-6 **Lab ID: 4050933006** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**289**	ug/L	1.0	0.41	1		09/20/11 01:35	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		09/20/11 01:35	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		09/20/11 01:35	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		09/20/11 01:35	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		09/20/11 01:35	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		09/20/11 01:35	74-83-9	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		09/20/11 01:35	104-51-8	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		09/20/11 01:35	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		09/20/11 01:35	98-06-6	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		09/20/11 01:35	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		09/20/11 01:35	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		09/20/11 01:35	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/20/11 01:35	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		09/20/11 01:35	74-87-3	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		09/20/11 01:35	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		09/20/11 01:35	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		09/20/11 01:35	96-12-8	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		09/20/11 01:35	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		09/20/11 01:35	106-93-4	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		09/20/11 01:35	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 01:35	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		09/20/11 01:35	541-73-1	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		09/20/11 01:35	106-46-7	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		09/20/11 01:35	75-71-8	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		09/20/11 01:35	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		09/20/11 01:35	107-06-2	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		09/20/11 01:35	75-35-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		09/20/11 01:35	156-59-2	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		09/20/11 01:35	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		09/20/11 01:35	78-87-5	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		09/20/11 01:35	142-28-9	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		09/20/11 01:35	594-20-7	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		09/20/11 01:35	563-58-6	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		09/20/11 01:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		09/20/11 01:35	10061-02-6	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		09/20/11 01:35	108-20-3	
Ethylbenzene	**75.6**	ug/L	1.0	0.54	1		09/20/11 01:35	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		09/20/11 01:35	87-68-3	
Isopropylbenzene (Cumene)	**7.3**	ug/L	1.0	0.59	1		09/20/11 01:35	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		09/20/11 01:35	99-87-6	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		09/20/11 01:35	75-09-2	
Methyl-tert-butyl ether	**53.8**	ug/L	1.0	0.61	1		09/20/11 01:35	1634-04-4	
Naphthalene	**19.2**	ug/L	5.0	0.89	1		09/20/11 01:35	91-20-3	
n-Propylbenzene	**7.3**	ug/L	1.0	0.81	1		09/20/11 01:35	103-65-1	
Styrene	**<0.86**	ug/L	1.0	0.86	1		09/20/11 01:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		09/20/11 01:35	630-20-6	

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

ANALYTICAL RESULTS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

Sample: MW-6 **Lab ID: 4050933006** Collected: 09/15/11 00:00 Received: 09/16/11 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		09/20/11 01:35	79-34-5	
Tetrachloroethene	**<0.45**	ug/L	1.0	0.45	1		09/20/11 01:35	127-18-4	
Toluene	**1.7**	ug/L	1.0	0.67	1		09/20/11 01:35	108-88-3	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		09/20/11 01:35	87-61-6	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	1.0	0.97	1		09/20/11 01:35	120-82-1	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		09/20/11 01:35	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		09/20/11 01:35	79-00-5	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		09/20/11 01:35	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		09/20/11 01:35	75-69-4	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		09/20/11 01:35	96-18-4	
1,2,4-Trimethylbenzene	**8.3**	ug/L	1.0	0.97	1		09/20/11 01:35	95-63-6	
1,3,5-Trimethylbenzene	**18.9**	ug/L	1.0	0.83	1		09/20/11 01:35	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/20/11 01:35	75-01-4	
m&p-Xylene	**3.3**	ug/L	2.0	1.8	1		09/20/11 01:35	179601-23-1	
o-Xylene	**3.6**	ug/L	1.0	0.83	1		09/20/11 01:35	95-47-6	
4-Bromofluorobenzene (S)	103	%.	70-130		1		09/20/11 01:35	460-00-4	
Dibromofluoromethane (S)	94	%.	70-130		1		09/20/11 01:35	1868-53-7	
Toluene-d8 (S)	105	%.	70-130		1		09/20/11 01:35	2037-26-5	

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

QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

QC Batch: GCV/7234 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4050933001, 4050933002, 4050933003

METHOD BLANK: 505819 Matrix: Water
Associated Lab Samples: 4050933001, 4050933002, 4050933003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	09/22/11 08:43	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	09/22/11 08:43	
Benzene	ug/L	<0.39	1.0	09/22/11 08:43	
Ethylbenzene	ug/L	<0.41	1.0	09/22/11 08:43	
m&p-Xylene	ug/L	<0.87	2.0	09/22/11 08:43	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	09/22/11 08:43	
Naphthalene	ug/L	<0.40	1.0	09/22/11 08:43	
o-Xylene	ug/L	<0.38	1.0	09/22/11 08:43	
Toluene	ug/L	<0.42	1.0	09/22/11 08:43	
a,a,a-Trifluorotoluene (S)	%.	103	80-120	09/22/11 08:43	

LABORATORY CONTROL SAMPLE & LCSD: 505820 505821

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	21.2	21.8	106	109	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	21.0	21.4	105	107	80-120	2	20	
Benzene	ug/L	20	21.7	22.4	109	112	80-120	3	20	
Ethylbenzene	ug/L	20	21.1	21.5	105	107	80-120	2	20	
m&p-Xylene	ug/L	40	41.9	42.4	105	106	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.6	22.0	103	110	80-120	6	20	
Naphthalene	ug/L	20	19.3	20.5	97	103	80-120	6	20	
o-Xylene	ug/L	20	21.0	21.3	105	107	80-120	1	20	
Toluene	ug/L	20	21.2	21.7	106	109	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%.				103	103	80-120			

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

QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

QC Batch: MSV/12616 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4050933004, 4050933005, 4050933006

METHOD BLANK: 504953 Matrix: Water
Associated Lab Samples: 4050933004, 4050933005, 4050933006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	09/19/11 16:07	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	09/19/11 16:07	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	09/19/11 16:07	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	09/19/11 16:07	
1,1-Dichloroethane	ug/L	<0.75	1.0	09/19/11 16:07	
1,1-Dichloroethene	ug/L	<0.57	1.0	09/19/11 16:07	
1,1-Dichloropropene	ug/L	<0.75	1.0	09/19/11 16:07	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	09/19/11 16:07	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	09/19/11 16:07	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	09/19/11 16:07	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	09/19/11 16:07	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	09/19/11 16:07	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	09/19/11 16:07	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	09/19/11 16:07	
1,2-Dichloroethane	ug/L	<0.36	1.0	09/19/11 16:07	
1,2-Dichloropropane	ug/L	<0.49	1.0	09/19/11 16:07	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	09/19/11 16:07	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	09/19/11 16:07	
1,3-Dichloropropane	ug/L	<0.61	1.0	09/19/11 16:07	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	09/19/11 16:07	
2,2-Dichloropropane	ug/L	<0.62	1.0	09/19/11 16:07	
2-Chlorotoluene	ug/L	<0.85	1.0	09/19/11 16:07	
4-Chlorotoluene	ug/L	<0.74	1.0	09/19/11 16:07	
Benzene	ug/L	<0.41	1.0	09/19/11 16:07	
Bromobenzene	ug/L	<0.82	1.0	09/19/11 16:07	
Bromochloromethane	ug/L	<0.97	1.0	09/19/11 16:07	
Bromodichloromethane	ug/L	<0.56	1.0	09/19/11 16:07	
Bromoform	ug/L	<0.94	1.0	09/19/11 16:07	
Bromomethane	ug/L	<0.91	1.0	09/19/11 16:07	
Carbon tetrachloride	ug/L	<0.49	1.0	09/19/11 16:07	
Chlorobenzene	ug/L	<0.41	1.0	09/19/11 16:07	
Chloroethane	ug/L	<0.97	1.0	09/19/11 16:07	
Chloroform	ug/L	<1.3	5.0	09/19/11 16:07	
Chloromethane	ug/L	<0.24	1.0	09/19/11 16:07	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	09/19/11 16:07	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	09/19/11 16:07	
Dibromochloromethane	ug/L	<0.81	1.0	09/19/11 16:07	
Dibromomethane	ug/L	<0.60	1.0	09/19/11 16:07	
Dichlorodifluoromethane	ug/L	<0.99	1.0	09/19/11 16:07	
Diisopropyl ether	ug/L	<0.76	1.0	09/19/11 16:07	
Ethylbenzene	ug/L	<0.54	1.0	09/19/11 16:07	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	09/19/11 16:07	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	09/19/11 16:07	

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

QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

METHOD BLANK: 504953 Matrix: Water

Associated Lab Samples: 4050933004, 4050933005, 4050933006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	09/19/11 16:07	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	09/19/11 16:07	
Methylene Chloride	ug/L	<0.43	1.0	09/19/11 16:07	
n-Butylbenzene	ug/L	<0.93	1.0	09/19/11 16:07	
n-Propylbenzene	ug/L	<0.81	1.0	09/19/11 16:07	
Naphthalene	ug/L	<0.89	5.0	09/19/11 16:07	
o-Xylene	ug/L	<0.83	1.0	09/19/11 16:07	
p-Isopropyltoluene	ug/L	<0.67	1.0	09/19/11 16:07	
sec-Butylbenzene	ug/L	<0.89	5.0	09/19/11 16:07	
Styrene	ug/L	<0.86	1.0	09/19/11 16:07	
tert-Butylbenzene	ug/L	<0.97	1.0	09/19/11 16:07	
Tetrachloroethene	ug/L	<0.45	1.0	09/19/11 16:07	
Toluene	ug/L	<0.67	1.0	09/19/11 16:07	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	09/19/11 16:07	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	09/19/11 16:07	
Trichloroethene	ug/L	<0.48	1.0	09/19/11 16:07	
Trichlorofluoromethane	ug/L	<0.79	1.0	09/19/11 16:07	
Vinyl chloride	ug/L	<0.18	1.0	09/19/11 16:07	
4-Bromofluorobenzene (S)	%.	103	70-130	09/19/11 16:07	
Dibromofluoromethane (S)	%.	95	70-130	09/19/11 16:07	
Toluene-d8 (S)	%.	106	70-130	09/19/11 16:07	

LABORATORY CONTROL SAMPLE & LCSD: 504954 504955

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.3	49.6	101	99	70-133	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	49.1	100	98	70-130	2	20	
1,1,2-Trichloroethane	ug/L	50	51.7	51.6	103	103	70-130	.1	20	
1,1-Dichloroethane	ug/L	50	51.2	50.5	102	101	70-130	1	20	
1,1-Dichloroethene	ug/L	50	47.6	47.7	95	95	70-130	.2	20	
1,2,4-Trichlorobenzene	ug/L	50	51.0	50.3	102	101	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	44.6	43.0	89	86	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	51.4	103	103	70-130	.3	20	
1,2-Dichlorobenzene	ug/L	50	51.7	51.6	103	103	70-130	.2	20	
1,2-Dichloroethane	ug/L	50	49.8	49.6	100	99	70-145	.4	20	
1,2-Dichloropropane	ug/L	50	53.2	54.1	106	108	70-130	2	20	
1,3-Dichlorobenzene	ug/L	50	51.6	51.0	103	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	51.6	51.1	103	102	70-130	1	20	
Benzene	ug/L	50	53.2	52.0	106	104	70-130	2	20	
Bromodichloromethane	ug/L	50	51.5	52.3	103	105	70-130	1	20	
Bromoform	ug/L	50	46.1	45.1	92	90	70-130	2	20	
Bromomethane	ug/L	50	38.5	42.9	77	86	52-155	11	20	
Carbon tetrachloride	ug/L	50	48.1	48.3	96	97	70-153	.5	20	
Chlorobenzene	ug/L	50	53.3	53.2	107	106	70-130	.07	20	
Chloroethane	ug/L	50	47.2	46.7	94	93	70-130	1	20	

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

QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

LABORATORY CONTROL SAMPLE & LCSD: 504954 504955

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	51.5	51.2	103	102	70-130	.5	20	
Chloromethane	ug/L	50	44.3	41.9	89	84	50-130	6	20	
cis-1,2-Dichloroethene	ug/L	50	50.8	49.9	102	100	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	46.5	47.4	93	95	70-130	2	20	
Dibromochloromethane	ug/L	50	47.9	48.1	96	96	70-130	.4	20	
Dichlorodifluoromethane	ug/L	50	33.9	34.5	68	69	50-150	2	20	
Ethylbenzene	ug/L	50	54.0	54.0	108	108	70-130	.04	20	
Isopropylbenzene (Cumene)	ug/L	50	56.0	56.1	112	112	70-130	.2	20	
m&p-Xylene	ug/L	100	106	107	106	107	70-130	.9	20	
Methyl-tert-butyl ether	ug/L	50	50.1	48.8	100	98	70-130	3	20	
Methylene Chloride	ug/L	50	46.4	47.1	93	94	70-130	2	20	
o-Xylene	ug/L	50	52.5	52.2	105	104	70-130	.6	20	
Styrene	ug/L	50	54.6	54.8	109	110	70-130	.4	20	
Tetrachloroethene	ug/L	50	51.7	52.0	103	104	70-130	.6	20	
Toluene	ug/L	50	52.7	53.2	105	106	70-130	.9	20	
trans-1,2-Dichloroethene	ug/L	50	53.8	52.6	108	105	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	45.5	45.5	91	91	70-130	.05	20	
Trichloroethene	ug/L	50	54.0	52.9	108	106	70-130	2	20	
Trichlorofluoromethane	ug/L	50	48.1	47.9	96	96	50-150	.5	20	
Vinyl chloride	ug/L	50	46.2	45.6	92	91	66-130	1	20	
4-Bromofluorobenzene (S)	%.				105	107	70-130			
Dibromofluoromethane (S)	%.				100	99	70-130			
Toluene-d8 (S)	%.				106	106	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 504956 504957

Parameter	Units	4050812003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	50.6	51.9	101	104	70-133	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	49.1	49.6	98	99	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	51.3	50.8	103	102	70-130	.9	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	51.0	51.6	102	103	70-133	1	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	46.6	46.4	93	93	70-130	.4	20	
1,2,4-Trichlorobenzene	ug/L	<0.97	50	50	42.6	46.5	85	93	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	42.7	43.0	85	86	50-150	.6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.56	50	50	50.1	51.9	100	104	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.83	50	50	48.1	50.7	96	101	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	49.3	49.9	99	100	70-145	1	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	53.7	53.4	107	107	70-130	.5	20	
1,3-Dichlorobenzene	ug/L	<0.87	50	50	46.3	49.1	93	98	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.95	50	50	46.0	49.1	92	98	70-130	6	20	
Benzene	ug/L	<0.41	50	50	52.1	53.2	104	106	70-130	2	20	
Bromodichloromethane	ug/L	<0.56	50	50	51.8	52.1	104	104	70-130	.7	20	
Bromoform	ug/L	<0.94	50	50	44.5	43.5	89	87	70-130	2	20	
Bromomethane	ug/L	<0.91	50	50	41.2	42.9	82	86	52-155	4	20	
Carbon tetrachloride	ug/L	<0.49	50	50	48.5	49.8	97	100	70-158	3	20	
Chlorobenzene	ug/L	<0.41	50	50	50.9	52.4	102	105	70-130	3	20	

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

QUALITY CONTROL DATA

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 504956 504957

Parameter	Units	4050812003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.97	50	50	43.4	46.0	87	92	70-130	6	20	
Chloroform	ug/L	<1.3	50	50	51.7	51.9	103	104	70-130	.3	20	
Chloromethane	ug/L	<0.24	50	50	36.3	36.0	73	72	46-130	.8	20	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	49.2	50.7	98	101	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	47.5	48.7	95	97	70-130	2	20	
Dibromochloromethane	ug/L	<0.81	50	50	47.7	49.1	95	98	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.99	50	50	25.3	29.1	51	58	50-150	14	20	
Ethylbenzene	ug/L	<0.54	50	50	51.6	53.0	103	106	70-130	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.59	50	50	53.9	55.2	108	110	70-130	3	20	
m&p-Xylene	ug/L	<1.8	100	100	102	105	102	105	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<0.61	50	50	48.5	49.3	97	99	70-130	2	20	
Methylene Chloride	ug/L	<0.43	50	50	46.9	48.1	94	96	70-130	2	20	
o-Xylene	ug/L	<0.83	50	50	51.1	52.2	102	104	70-130	2	20	
Styrene	ug/L	<0.86	50	50	51.6	53.6	103	107	19-157	4	20	
Tetrachloroethene	ug/L	<0.45	50	50	49.9	52.1	100	104	70-130	4	20	
Toluene	ug/L	<0.67	50	50	51.6	53.1	103	106	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	53.0	53.4	106	107	70-130	.7	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	45.1	46.6	90	93	70-130	3	20	
Trichloroethene	ug/L	<0.48	50	50	51.2	52.7	102	105	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.79	50	50	45.6	47.5	91	95	50-150	4	20	
Vinyl chloride	ug/L	<0.18	50	50	42.5	43.8	85	88	62-130	3	20	
4-Bromofluorobenzene (S)	%.						106	104	70-130			
Dibromofluoromethane (S)	%.						100	100	70-130			
Toluene-d8 (S)	%.						106	107	70-130			

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

QUALIFIERS

Project: 10370.00 BOB'S CITGO
Pace Project No.: 4050933

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/7234

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical®
www.pacelabs.com

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

JK

4050933

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
Branch/Location:	McFarland
Project Contact:	Robyn Seymour
Phone:	608-838-9120
Project Number:	10370.00
Project Name:	Bois'Gtgo
Project State:	WI
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 Environ.
Mail To Address:	2531 Dyreson Rd McFarland, WI 53558
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
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, Sl = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC's	PVOC + MAPH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	9/8/11		GW	N	B	X	X		3-40ml 5	
002	MW-2			GW	N	B	X	X	HOT!!		
003	MW-3			GW	N	B	X	X			
004	MW-4			GW			X				
005	MW-5			GW			X				
006	MW-6			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:	
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	9/10/11 pm		
Relinquished By:	Date/Time:	Received By:	Date/Time:
[illegible]	9/10/11 10:30	J. Bulluta-Pace	9/10/11 10:30
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
4050933

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)

ORIGINAL