

February 18, 2022
File No. 25221172.00

Ms. Cindy Koepke, PG, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources - South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Site Investigation Update Report
Former Bob's Citgo, 602 W. Madison Avenue, Milton, Wisconsin
BRRTS #03-54-000193

Dear Cindy:

SCS Engineers (SCS) is submitting this report on behalf of Mr. Robert Richardson for the former Bob's Citgo and Badgerland Coop leaking underground storage tank (LUST) case at the above-referenced property. The scope of the investigation was based on your comments in a letter to Mr. Robert Richardson, dated September 10, 2021, and was outlined in a work plan submitted on October 13, 2021.

1.0 BACKGROUND

This case was first opened by the Wisconsin Department of Natural Resources (WDNR) in 1983. Groundwater was first sampled in November 2010. Petroleum contamination was identified in soil and groundwater at the site. Sampling of the subslab vapors below the station building in 2015 and 2016 did not identify any vapor intrusion concerns. Groundwater sampling data indicate groundwater impacts are present on site, free product is present in one well, and groundwater impacts extend off site to the west and south. Soil impacts are present mostly at depth, with most of the shallow impacted soil excavated when the underground storage tanks (USTs) were removed from the site in October 2019. Soil impacts extend to the east onto the Jim's Tire property and to the south to the right-of-way along W. Madison Avenue.

The location of the Bob's Citgo site is shown on **Figure 1**.

The Bob's Citgo property and the adjoining Jim's Tire property have a long history of use as auto repair facilities and gas stations. Following is a summary of additional background information obtained from WDNR files.

1.1 WI DOT ROW MADISON AVE. (BRRTS 09-54-546987)

A Phase 2 Site Investigation was conducted in 1992 by the Wisconsin Department of Transportation (WDOT) in conjunction with planned improvements of Madison Avenue (STH 59). Three soil borings were installed in the road way adjacent Bob's Citgo and Jim's Tire. The approximate locations of the borings are shown on **Figure B.2.b**. The boring logs and a map showing boring locations are included in **Appendix A**. Field observations and analytical testing of soil samples from the borings for gasoline range organics (GRO) and diesel range organics (DRO) did not indicate any petroleum impacts.



A sketch map in the Phase 2 shows the location of gas pumps to the east of the Bob's Citgo building and the former location of the pump island, USTs, and the garage building on the adjacent 520 W. Madison Ave. property. The sketch map also shows gas pumps located between the Bob's Citgo building and the former Jim's Tire garage. These former locations are shown on **Figure B.2.b**. The sketch map is included in **Appendix A**.

In addition to the information about the site conditions in 1992, the WDOT Phase 2 also provides a summary of historic information that was obtained from the Phase 1 Site Assessment that was performed for the WDOT road project. Both the 602 and 520 W. Madison Avenue properties have been gas stations since the 1930's. Noted are the following:

602 West Madison Avenue (Bob's Citgo)

- Formerly Milton Coop Creamery as shown on 1909 Sanborn map.
- Creamery demolished in the 1930's and "Filling Station" with three fuel tanks present.
- Site has been a gas station since the 1930's.

520 West Madison Avenue (Jim's Tire)

- Operated as an auto repair shop and gas station since 1928.
- The 1930 Sanborn shows four tanks adjacent STH 59, near the location of the pump island, and west of the tanks that were onsite in 1992. (The approximate location of the tanks present on site in the 1930's is shown on **Figure B.2.a**).
- Site has been a gas station since the 1930's.
- The three gas tanks and a waste oil tank onsite in 1992 were installed in 1974.

1.2 JIM'S TIRE (BRTS CASE #02-54-286788)

Four UST systems containing gasoline and waste motor oil were removed on April 18, 1997. The tank closure report was not available from the WDNR files, but a Tank System Site Assessment (TSSA) was conducted and a report by Moraine Environmental, Inc. (MEI) dated January 8, 2002, includes the TSSA Checklist for Underground Tank Closure. Based on the checklist, no indicators of petroleum contaminated soils (no elevated photoionization detector [PID] readings, no odors) were observed by the site assessor or the certified inspector. The observations indicate that the area on Jim's Tire where the tank system was formerly located was not impacted by petroleum releases.

The current building on Jim's Tire was constructed in 2002. According to the Mr. James Oshel, owner of Jim's Tire, the former building was demolished and used to backfill the basement of the demolished building (personal communication with SCS on October 18, 2021).

The MEI report documents remedial activities conducted in response to discovery of petroleum contaminated soil in the area of new building construction (the current building) at Jim's Tire. In October 2001, during excavation of footings for the new building, possible petroleum contaminated

soils were identified by the excavation contractor. A composite soil sample was analyzed for BIO-3 landfill disposal parameters. The results identified the following petroleum related impacts:

Summary of detected parameters in a composite soil sample analyzed for BIO-3 landfill disposal parameters	
Gasoline range organics (GRO)	150 mg/kg,
Diesel range organics (DRO)	6,300 mg/kg,
Total lead	950 mg/kg
TCLP lead	0.66 mg/l.

On November 19, 2001, MEI supervised the excavation and disposal of 127.43 tons of contaminated soil from the site. The soil was disposed at the Waste Management, Deer Track Landfill in Johnson Creek, Wisconsin. The contaminated soil was adjacent to a drain and catch basin system extending between floor drains in the service bays to a catch basin located outside of the building to the north. Eight soil samples were collected from the perimeters of the excavation and analyzed for GRO and petroleum volatile organic compounds (PVOs) and lead. The approximate location of the soil excavation and locations of the samples are shown on **Figure B.2.a**.

MEI concluded that the WDNR case could be closed for the following reasons:

- Based on the results from the samples, the contaminated soils identified at the northern portion of the site were remediated.
- Soil contamination was not identified during the removal of the four UST systems in April, 1997.
- Redevelopment of the site including capping the site with pavement and the building eliminated the potentials for groundwater contamination or direct contact with any residual contaminated soils.

The WDNR concurred with MEI's conclusions, and on January 18, 2002, issued site closure with no further action for the property located at 520 West Madison.

2.0 OCTOBER 2021 SITE INVESTIGATION

On October 18 and 19, 2021, SCS installed seven soil borings, sampled soils, located on-site subsurface utilities, and conducted hydraulic conductivity tests. SCS evaluated field and laboratory data and prepared this update that documents the field investigation activities and presents the investigation results.

2.1 SOIL SAMPLING AND OTHER FIELD ACTIVITIES

SCS conducted the following field and related site investigation activities:

- Coordinated off-site access with the owner of Jim's Tire & Automotive.
- Installed six soil borings to depths of 15 to 20 feet below ground surface (bgs) depending on site location, potential source, and field-indicated contamination; and one boring near MW2 to 50 feet bgs. The purpose of the boring at MW2 is primarily to obtain stratigraphic information to help interpret the site hydrogeology.
- Logged and classified soil following the Unified Soil Classification System (USCS) and screened soils at approximately 2.5-foot intervals using a PID. Boring logs are included in **Appendix A**.
- Analyzed one to three soil samples per boring for PVOs and naphthalene. Soil samples were analyzed by Pace Analytical Services, LLC, Green Bay, Wisconsin. The soil analytical results are summarized on **Table A.2** and the analytical report is included in **Appendix B**.
- Abandoned soil borings consistent with NR 141 Wisconsin Administrative Code. Abandonment forms are included in **Appendix A**.
- Mapped on-site utilities for possible preferred pathways for contaminant migration and preferential recharge to the MW2 area.
- Conducted single well response (slug) tests at four selected wells (MW1, MW2, MW3, and MW10) and analyzed the data to evaluate hydraulic conductivity. Slug test data plots are included in **Appendix C** and slug test parameters and results are summarized on **Table A.7**.
- Shallow soil cuttings with no indication of petroleum contamination, i.e. petroleum odors, staining, and elevated PID readings, were thin spread on-site or disposed in the on-site trash recepticals.
- Deeper soil cuttings with indications of petroleum contamination were contained in 5-gallon buckets and left on-site for disposal pending analytical results.

3.0 FINDINGS

3.1.1 Soil Impacts

Soil analytical results are summarized on **Table A.1**. **Figure B.2.a** shows the location of all the soil sampling locations, and the estimated horizontal extent of unsaturated contaminated soil that exceeded a groundwater pathway residual contamination level (RCL). Also shown is the estimated horizontal extent of unsaturated contaminated soil that exceeded a non-industrial direct contact RCL.

Soil contamination has been removed from on-site through remedial soil excavation conducted in association with underground tank removal. The following information is from the documentation report prepared by Seymour Environmental Services, Inc. (2/14/2020).

- Soil in the former tank area was excavated to a depth of about 19 feet at the north end of the excavation and to a depth of about 15 feet at the south end of the excavation. Approximately 885 tons of contaminated soil were removed from the tank area and disposed at a landfill.
- Soil in the area of the former pump islands located adjacent West Madison Avenue was excavated to a depth of about 5 feet. Approximately 115 tons of contaminated soil were removed from this area and disposed at a landfill.
- A total of 1,000 tons of contaminated soil was removed from the site and disposed at a landfill.

3.1.2 Residual Soil Impacts

Soil contamination exceeding groundwater pathway RCLs remains on-site north of the tank excavation, east of the tank excavation along the property line, and on the west side of Jim's Tire property. A small area of soil contamination exceeding groundwater pathway RCLs also remains south of the Bob's Citgo building in the area of the former pump island, and extends into the right-of-way along West Madison Avenue.

Soil contamination exceeding non-industrial direct contact RCLs remains in a small area at the east end of the former pump island, and in a small area near the southwest corner of the Jim's Tire building (**Figure B.2.a**).

3.1.3 Groundwater Impacts

Groundwater analytical results are summarized on **Table A.1**. Groundwater levels and elevations are summarized on the attached **Table A.6**. Monitoring wells were last sampled in July 2021.

Figure B.3.b shows the location of all the groundwater monitoring wells, and the estimated extent of groundwater contamination that exceeds an NR 140 preventive action limit (PAL) or enforcement standard exceedance (ES). Currently the groundwater plume extends off site to the west. Contaminants have not been detected at monitoring well, MW10, located to the southeast of the site.

3.1.4 Groundwater Flow Pattern

Previous water table contour maps have shown groundwater flow to the west/southwest, with an apparent component of flow to the southeast (**Figure B.3.c**). The onsite well MW2 has had higher groundwater elevations than the adjacent wells, and MW10 has had groundwater elevations that have been several feet lower than the on-site wells, MW1, MW2, and MW3. Groundwater levels are provided in **Table A.6**.

Based on the recently obtained stratigraphic information, the elevated groundwater elevation at MW2 appears to be controlled by strata of lower permeability sediment (silt and clay) near the water

table. In addition MW10 is screened about 5 feet lower than MW2, and is not screened in the same stratigraphic unit as MW2 and the other on-site wells, MW1 and MW3.

The hydraulic conductivity (1.7×10^{-4} cm/sec) at MW2 is 3 orders of magnitude lower than at MW10 where a hydraulic conductivity of 2.0×10^{-1} cm/sec is indicated by the single well hydraulic conductivity test (**Table A-7**). The hydraulic conductivity at MW1 and MW3 (2.1×10^{-4} cm/sec, and 5.6×10^{-4} cm/sec, respectively) are also much lower than at MW10 which likely, in part, account for the higher groundwater elevations onsite.

Figure B.3.c.a. shows the water table contours prepared without using the groundwater elevation at MW10. The groundwater flow is predominantly to the west, and is consistent with the groundwater quality data. We conclude that **Figure B.3.c.a** more accurately depicts the actual groundwater flow conditions in the area of the site than previous groundwater flow maps that used groundwater elevations from MW10. MW 10 is not installed in the same hydrostratigraphic unit as the on-site wells, and water levels measured at MW10 should not be used in water table contour maps.

4.0 GEOLOGY

4.1 REGIONAL SITE GEOLOGY

The following summary of the regional site geology is based on information in the Wisconsin Geological & Natural History Survey, 2011 publication, The Glaciation of Wisconsin, by Attig and others.

The site area was glaciated during the Late Wisconsinan by the Green Bay Lobe of the Laurentide Ice Sheet that reached its maximum extent about 30,000 years ago. The Johnstown Moraine, which formed at the margin of the ice lobe at its maximum extent is located a few miles south of the site. The site is located between the Johnstown terminal moraine and the Milton recessional moraine. The Milton recessional moraine formed during the Milton Phase about 16,000 years before present (BP). The area farther south of the Johnstown Moraine was glaciated prior to about 35,000 years BP. The sediment deposited by the Green Bay Lobe in this area belongs to the Holy Hill Formation which includes brown gravelly, clayey, silty sandy till of the Horicon Member.

The sediments in the general area of the site likely include till of the Horicon Member, outwash sand and gravel, and finer grained lacustrine sediment that were intermittently deposited in the area between the moraines as the ice margin retreated. The area was also glaciated prior to the late Wisconsinan and older glacial and related sediments may be present at depth.

4.2 SITE GEOLOGY

Geologic cross-sections were prepared from the boring logs available for the site. The boring logs are included in **Appendix A**. The borings installed by SCS in 2021 were continuously sampled and provide information that is very useful in evaluating the distribution of soil and groundwater impacts, and aid in interpreting the soil and contaminant distribution described in previous borings that were logged from cuttings. The locations of the geologic cross-section are shown on **Figure B.3.a**.

Cross-section A-A' (**Figure B.3.a.a**) includes boring BMW2 which was installed in 2021 to provide geologic information in the area of MW2 which has had higher groundwater levels than nearby wells,

and has had free product present. The boring log for BMW2 is included in **Appendix A**. The detailed geologic information from BMW2 indicates that the elevated water levels at MW2 are due to lower permeability strata at the zone near the depth of the water table. The higher water level at MW2 is attributable to site stratigraphy, and not associated with surface recharge from a storm sewer or water line. Underground utility locations are shown on **Figure B.2.a**.

We note the following based on Cross-section A-A' (**Figure B.3.a.a**):

- The sediments at the site are very variable and include silty sand, sand and gravel, and silt and clay, and are consistent with the location of the site between the terminal and recessional moraines where till, outwash, and lacustrine sediment were intermittently deposited.
- The hydraulic conductivity at MW1 and MW2 (2.0×10^{-4} cm/sec, and 1.7×10^{-4} cm/sec, respectively) is 3 orders of magnitude lower than at MW10 (2.0×10^{-1} cm/sec) as indicated by single well hydraulic conductivity tests.
- The relatively lower water levels measured at MW10 may in part be due to the well being screened about 5 feet lower than MW2. Also MW10 is screened in a sandy layer below clay, whereas MW2 is screened in fine-grained sediment below a sand layer.
- Soil contamination at BMW2, as indicated by elevated PID readings, odor and staining, is predominantly focused in a zone about 17 to 25 feet bgs, and is associated with sediment layering. Below this zone there is no indication of contamination in the sand and gravel, and fine-grained sediment, until at the water table where free product is present.

We note the following based on Cross-section B-B' (**Figure B.3.a.b**):

- The shallow stratigraphy is very variable and includes organic silt, silt, clay, silty sand, and sandy fill.
- The only shallow residual soil contamination (less than about 5 feet bgs) is in the area of the former pump island. Near the property line with Jim's Tire, at B4R and B21, soil contamination is present at about 10 feet bgs. Farther to the north near the property line, at BMW2 and B11, the soil contamination is at about 17 feet bgs.

4.3 SITE CONCEPTUAL MODEL

The site has a very long history (nearly 100 years) of use for petroleum storage and dispensing.

- Petroleum products have been released at several locations including the dispenser island along W. Madison Avenue, the former kerosene UST and dispensers along the eastern property border, and the main tank bed in the central portion of the site.
- Contaminants migrated down to varying depths depending on the permeability of the sediment layers, and the time of the release. Some releases occurred several decades ago.

- Contaminants eventually migrated to the water table which is located at depths ranging from 47 to 67 feet bgs.
- Groundwater flow is to the west, consistent with the groundwater quality data.
- The steeper groundwater flow gradients on site are associated with lower permeability sediment at the water table in this area. The groundwater elevation at MW10 is lower than at the onsite wells likely because MW10 is screened deeper, and is not screened in the same hydrostratigraphic unit as the onsite wells.
- The adjacent site to the east has also had a long history of petroleum storage and use. However analytical data and observations from the tank closure assessment do not indicate petroleum impacts in the area of the former tanks or pump islands.

5.0 CONCLUSIONS


- Both the Bob's Citgo site and the adjacent Jim's Tire site have had a long history of petroleum storage and use. Some petroleum releases may have occurred several decades ago.
- Shallow soil contamination has been removed from on-site through remedial soil excavation conducted in association with underground tank removal.
- Some petroleum impacted soil remains on the Bob's Citgo site and on the west side of Jim's Tire. Most of the residual soil impacts are deeper than about 10 feet bgs.
- The extent of soil contamination has been adequately defined. The site can be closed with a cap maintenance plan for residual soil contamination that exceed NR 720 RCLs.
- Capping of the area with remaining soil contamination is consistent with the property use for commercial purposes.
- Groundwater flow is predominantly to the west. The existing groundwater monitoring well network adequately defines the extent of groundwater impacts.
- The groundwater plume is stable or decreasing following removal of the tanks system and contaminated soil.
- Subslab vapors have been investigated and vapor intrusion is not a concern.

6.0 RECOMMENDATIONS

We recommend conducting one additional round of groundwater monitoring at selected wells, and preparing a case closure request with use restrictions and inclusion of the site on the registry of impacted sites maintained by the WDNR.

Please contact Betty at 608-212-6664 if you have any questions or comments.

Sincerely,



Betty J. Socha, PhD, PG
Senior Project Manager
SCS Engineers



Tony Kollasch
Project Manager
SCS Engineers

BJS/AJR/TK

CC: Mr. Robert Richardson

Encl. Table A.1 – Groundwater Analytical Results Summary – VOCs
Table A.2 – Soil Analytical Results Summary – PVOCs
Table A.6 – Water Level Elevations
Table A.7 – Slug Test Parameters and Results

Figure 1 – Site Location Map
Figure B.2.a. – Soil Contamination
Figure B.3.a – Geologic Cross Section Locations
Figure B.3.a.a – Geologic Cross Section A-A'
Figure B.3.a.b. – Geologic Cross Section B-B'
Figure B.3.b. – Groundwater Isoconcentration
Figure B.3.c. – Groundwater Flow Direction – 07/08/2021
Figure B.3.c.a. – Groundwater Flow – 07/08/2021

Appendix A – Boring Logs & Well Forms
Appendix B – Soil Analytical Report
Appendix C – Slug Test Results

Tables

- A.1 – Groundwater Analytical Results Summary – VOCs
- A.2 – Soil Analytical Results Summary – PVOCs
- A.6 – Water Level Elevations
- A.7 – Slug Test Parameters and Results

Table A. 1 Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs
MW-1	11/4/2010	--	<u>6,950</u>	<u>2,380</u>	<u>912</u>	<u>17,000</u>	<u>1,564</u>	<u>11,140</u>	<u>426</u>	ND
	3/3/2011	--	<u>8,700</u>	<u>2,810</u>	<u>914</u>	<u>18,300</u>	<u>2,136</u>	<u>13,650</u>	<u>478</u>	Methylene Chloride 113 * n-Propylbenzene 208
	9/15/2011	--	<u>7,550</u>	<u>2,540</u>	<u>867</u>	<u>15,300</u>	<u>2,153</u>	<u>12,160</u>	<u>640</u>	NA
	8/15/2013	--	<u>6,600</u>	<u>2,630</u>	<u>302</u>	<u>15,600</u>	<u>2,226</u>	<u>11,890</u>	<u>663</u>	NA
	9/11/2013	--	<u>5,170</u>	<u>2,230</u>	<u>184</u>	<u>13,200</u>	<u>1,889</u>	<u>10,300</u>	<u>525</u>	Isopropylbenzene 73.6 n-Propylbenzene 185
	5/28/2015	--	<u>5,620</u>	<u>2,060</u>	<u>160</u>	<u>12,800</u>	<u>1,854</u>	<u>9,360</u>	<u>567</u>	NA
	6/24/2017	--	<u>6,970</u>	<u>2,980</u>	<u>390</u>	<u>17,100</u>	<u>2,224</u>	<u>12,880</u>	<u>734</u>	NA
	10/23/2017	--	<u>5,170</u>	<u>2,940</u>	<u>222</u>	<u>14,000</u>	<u>2,324</u>	<u>13,170</u>	<u>711</u>	NA
	7/8/2021	--	<u>2,420</u>	<u>2,890</u>	<11.3	<u>1,800</u>	<u>2,576</u>	<u>10,800</u>	<u>579</u>	NA
MW-2	3/11/2011	--	<u>5,260</u>	<u>3,270</u>	<u>284</u>	<u>11,100</u>	<u>2,887</u>	<u>15,270</u>	<u>529</u>	Isopropylbenzene 101 Methylene Chloride 66.5 * n-Propylbenzene 294
	9/15/2011	--	<u>4,760</u>	<u>3,720</u>	<u>280</u>	<u>10,900</u>	<u>3,238</u>	<u>16,550</u>	<u>891</u>	NA
	8/15/2013	--	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/2013	--	<u>1,810</u>	<u>2,930</u>	<u>37.3</u>	<u>2,660</u>	<u>3,155</u>	<u>11,020</u>	<u>828</u>	Isopropylbenzene 150 n-Propylbenzene 406 p-Isopropyltoluene 11.3 sec-Butylbenzene 19.6 J*
	5/28/2015	--	<u>2,020</u>	<u>3,400</u>	<u>49.6</u>	<u>2,560</u>	<u>3,843</u>	<u>14,150</u>	<u>826</u>	NA
	6/24/2017	--	<u>2,310</u>	<u>3,300</u>	<u>60.6</u> J	<u>480</u>	<u>5,160</u>	<u>12,950</u>	<u>1,560</u>	NA
	10/23/2017	--	<u>1,080</u>	<u>2,310</u>	<24.2	<u>204</u>	<u>4,055</u>	<u>8,640</u>	<u>928</u>	NA
	7/8/2021	--	<u>335</u>	<u>2,000</u>	<45.2	57.1	<u>3,861</u>	<u>7,360</u>	<u>964</u>	NA

Table A. 1 Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs
MW-3	3/3/2011	--	<u>3,150</u>	<u>3,230</u>	<76.2	<u>10,500</u>	<u>2,888</u>	<u>14,130</u>	<u>589</u>	Isopropylbenzene 105 n-Propylbenzene 284 Methylene Chloride 65.6 *
	9/15/2011	--	<u>2,670</u>	<u>2,610</u>	<u>74.30</u>	<u>6,420</u>	<u>2,932</u>	<u>10,660</u>	<u>680</u>	NA
	8/15/2013	--	<u>2,290</u>	<u>3,760</u>	<u>562</u>	<u>1,750</u>	<u>3,411</u>	<u>15,650</u>	<u>926</u>	NA
	9/11/2013	--	<u>2,290</u>	<u>2,580</u>	<u>532</u>	<u>1,120</u>	<u>2,393</u>	<u>11,030</u>	<u>684</u>	Isopropylbenzene 93.3 n-Propylbenzene 230
	5/28/2015	--	<u>1,360</u>	<u>3,040</u>	<24.2	<u>719</u>	<u>3,342</u>	<u>12,610</u>	<u>831</u>	NA
	6/24/2017	--	<u>1,100</u>	<u>2,900</u>	<u>28.6</u> J	68.3	<u>3,063</u>	<u>9,208</u>	<u>743</u>	NA
	10/23/2017	--	<u>1,760</u>	<u>2,730</u>	<u>58.3</u> J	<u>163</u>	<u>3,515</u>	<u>9,630</u>	<u>884</u>	NA
	7/8/2021	--	<u>1,220</u>	<u>2,330</u>	<28.2	35.3	<u>4,227</u>	<u>4,170</u>	<u>813</u>	NA
MW-4	9/15/2011	--	<0.41	<0.54	<u>154</u>	<0.67	<1.80	<2.63	<0.89	1,2-Dichloroethane 2.3 Chloromethane 0.33
	8/15/2013	--	<0.34	<0.34	<u>210</u>	<0.34	<0.69	<1.03	<0.37	NA
	9/11/2013	--	<0.50	<0.50	<u>154</u>	<0.44	<1.00	<1.32	<2.5	1,2-Dichloroethane 1 Isopropylbenzene 1.4
	5/28/2015	--	<0.40	<0.39	<u>95.0</u>	<0.39	<0.84	<1.25	<0.42	NA
	6/24/2017	--	<0.40	<0.39	0.68 J	<0.39	<0.84	<1.25	<0.42	NA
	10/23/2017	--	<0.40	<0.39	<u>21.7</u>	<0.39	<0.84	<1.25	<0.42	NA
MW-5	9/15/2011	--	<u>623</u>	58.5	<u>776</u>	6.3	<9.0	271	<4.4	ND
	8/15/2013	--	<u>3,930</u>	<u>1,330</u>	<u>270</u>	<u>969</u>	<u>486</u>	<u>2,890</u>	<u>307</u>	NA
	9/11/2013	--	<u>3,220</u>	<u>1,080</u>	<u>216</u>	<u>737</u>	<u>338.8</u>	<u>2,152</u>	<u>209</u>	Isopropylbenzene 36.6 n-Propylbenzene 78.3
	5/28/2015	--	<u>2,170</u>	<u>917</u>	<u>105</u>	<u>1,690</u>	<u>900</u>	<u>3,920</u>	<u>275</u>	NA
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	2.6	NA
	7/8/2021	--	<u>16.6</u>	26.5	4.7 J1	2.1	23.1	63.8	6.9	NA

Table A. 1 Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs
MW-6	9/15/2011	--	<u>289</u>	75.6	<u>53.8</u>	1.7	27.2	6.9	<u>19.2</u>	Isopropylbenzene 7.3 n-Propylbenzene 7.3
	8/15/2013	--	<u>4.1</u>	1.2	5.3	<0.34	<0.69	<1.03	<0.37	NA
	9/11/2013	--	<u>208</u>	121	3.2	11.3	35.0	162.1	<u>20.0</u>	Isopropylbenzene 6.5 n-Propylbenzene 13.1
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	6/24/2017	--	<u>1,060</u>	<u>1,360</u>	<u>109</u>	<u>166</u>	<u>870</u>	<u>3,164</u>	<u>354</u>	NA
	10/23/2017	--	<u>103</u>	98.7	4.1	7.9	65.3	160	<u>22.2</u>	NA
	7/8/2021	--	<u>5.1</u>	4.1	<1.1	<0.29	0.60 J1	1.9 J1	<1.1	NA
MW-7	9/11/2013	--	<u>56.6</u>	<0.50	<u>125</u>	<0.44	<1.00	<1.32	<2.5	1,2-Dichloroethane 1.1
	5/28/2015	--	<u>18.8</u>	1.3	<u>126</u>	<0.39	<0.84	5.2	1.7	NA
	6/24/2017	(2)	<u>244</u>	8.2	<u>96.9</u>	3.2	<1.67	3.0	2.7	NA
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
MW-8	9/11/2013	--	<u>12.8</u>	<0.50	4.30	<0.44	<1.00	<1.32	<2.5	ND
	5/28/2015	--	<u>0.75</u> J	<0.39	10.30	<0.39	1.6	<1.25	0.67 J	NA
	6/24/2017	--	<u>2.1</u>	12.2	2.30	0.441	<0.84	3.0	<u>14.4</u>	NA
	10/23/2017	--	<0.40	<0.39	2.90	<0.39	<0.84	<1.25	<0.42	NA
MW-9	9/11/2013	--	<0.50	<0.50	1.1	<0.44	<1.00	<1.32	<2.5	ND
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
MW-10	9/11/2013	--	<0.50	<0.50	<0.49	<0.44	<1.00	<1.32	<2.5	ND
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA
	10/23/2017	(1)(2)	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA

Table A. 1 Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs
Trip Blank	7/8/2021	--	<0.30	<0.33	<1.1	<0.29	<0.81	<1.0	<1.1	NA
NR 140 Enforcement Standards (ESs)			5	700	60	800	480	2,000	100	1,2-Dichloroethane 5 sec-Butylbenzene NE Isopropylbenzene NE n-Propylbenzene NE p-Isopropyltoluene NE Methylene Chloride 0.5 Chloromethane 30
NR 140 Preventive Action Limits (PALs)			0.5	140	12	160	96	400	10	1,2-Dichloroethane 0.5 sec-Butylbenzene NE Isopropylbenzene NE n-Propylbenzene NE p-Isopropyltoluene NE Methylene Chloride 5 Chloromethane 3

Abbreviations:

µg/L = micrograms per liter or parts per billion (ppb)

-- = Not Applicable

NA = Not Analyzed

NE = No Standard Established

MTBE = Methyl tert-butyl ether

VOCs = Volatile Organic Compounds

TMBs = 1,2,4- and 1,3,5-trimethylbenzenes

Notes:

NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021

NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021

Bold+underlined values meet or exceed NR 140 ESs.

Italic+underlined values meet or exceed NR 140 PALs.

Laboratory Notes/Qualifiers:

* = May be laboratory contaminant

J = Estimated concentration below quantitation limit

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

(1) = Lab flagged sample for insufficient preservation pH

(2) = Lab flagged sample for headspace in sample

Created by:	<u>AJR</u>	Date:	<u>7/22/2021</u>
Last revision by:	<u>AJR</u>	Date:	<u>7/26/2021</u>
Checked by:	<u>BJS</u>	Date:	<u>7/31/2021</u>
Proj Mgr QA/QC:	<u>BJS</u>	Date:	<u>7/31/2021</u>

I:\25221172.00\Deliverables\2022-2 GWM Reprt\Tables\[Table A.1_Groundwater VOCs_Bob's CITGO.xlsx]GW VOCs

Table A.2 Soil Analytical Results Summary - PVOCs
Former Bob's Citgo - Milton, Wisconsin / SCS Engineers Project #25221172.00
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	1,2,4- & 1,3,5-TMB Combined	MTBE	Naphthalene	Lead (mg/kg)	Other VOCs
B-1	8/24/2005	16-20	--	--	<200	<u>14,600</u>	<u>6,240</u>	<u>68,800</u>	57,300	20,000	<u>77,300</u>	<200	NA	5.43	NA
		27	--	--	<25	<25	<25	<50	<25	<25	<50	<25	NA	1.26	NA
B-2	8/24/2005	16-20	--	--	<25	<25	<25	<50	<25	<25	<50	<25	NA	0.552	NA
B-3	8/24/2005	12-16	--	--	<25	<25	<25	<50	33.7	<25	33.7	<25	NA	4	NA
B-4	8/24/2005	6-8	--	--	<u>1,720</u>	<u>2,780</u>	460	<u>19,950</u>	10,500	3,820	<u>14,320</u>	<25	NA	13.3	NA
B-5	8/24/2005	6-7	--	--	<u>1,190</u>	<u>15,400</u>	<u>7,450</u>	<u>76,100</u>	44,800	13,900	<u>58,700</u>	<200	NA	15.6	NA
B-6	8/24/2005	6-7	--	--	<u>1,370</u>	1,040	144	<u>4,020</u>	1,670	493	<u>2,163</u>	<u>44</u>	NA	11.8	NA
B-7	4/6/2011	18	--	--	<25.0	<25.0	<25.0	<75.0	56.1	<25.0	56.1	<25.0	<25.0	NA	NA
	4/6/2011	20	--	--	<25.0	<25.0	<25.0	219.4	252	81.1	333.1	<25.0	44.8	NA	NA
B-8	4/6/2011	7	--	--	<u>618</u>	1,180	<100	<u>4,770</u>	13,300	4,620	<u>17,920</u>	<100	<u>5,770</u>	NA	NA
B-9	4/6/2011	10	--	--	<25.0	<25.0	<25.0	76.6	46	<25.0	46	<25.0	<25.0	NA	NA
B-10	4/6/2011	16-20	--	--	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<50.0	<25.0	<25.0	NA	NA
	4/6/2011	20-24	--	--	<25.0	64.7	56.7	345.8	286	85.6	371.6	<25.0	184	NA	NA
B-11	4/6/2011	18	--	--	<26.9	<26.9	<26.9	<80.7	<26.9	<26.9	<53.8	<26.9	<26.9	NA	NA
	4/6/2011	20	--	--	<u>2,170</u>	<u>42,200</u>	<u>12,200</u>	<u>180,500</u>	89,900	29,800	<u>119,700</u>	<1000	<u>14,700</u>	NA	NA
MW-1	10/25/2010	23.5-25	--	--	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<50.0	<25.0	<25.0	NA	NA
	10/25/2010	53*	--	--	<u>1,040</u>	989	<u>3,780</u>	<u>4,690</u>	1,430	411	<u>1,841</u>	<u>147</u>	<u>726</u>	NA	NA
MW-2	2/23/2011	15	--	--	<25.0	<25.0	<25.0	88.1	82.2	<25.0	82.2	<25.0	42.1	NA	NA
MW-3	2/23/2011	3-5	--	--	<25.0	<25.0	<25.0	68.6	37.9	<25.0	37.9	<25.0	<25.0	NA	NA
	2/23/2011	13-15	--	--	<u>1,920</u>	<u>33,300</u>	<u>14,600</u>	<u>146,300</u>	104,000	37,200	<u>141,200</u>	<500	<u>17,500</u>	NA	NA
	2/23/2011	23-25	--	--	<25.0	156	75.2	710	461	156	617	<25.0	176	NA	NA
#1	10/30/2019	18	--	--	<u>608</u>	<u>8,780</u>	<u>3,810</u>	<u>40,600</u>	19,600	6,040	<u>25,640</u>	<62.5	<u>2,730</u>	NA	NA
#2	10/30/2019	20	--	--	<u>4,310</u>	<u>90,500</u>	<u>44,000</u>	<u>628,000</u>	<u>323,000</u>	102,000	<u>425,000</u>	<1000	<u>39,600</u>	NA	NA
#3	10/30/2019	16	--	--	<25.0	255	184	1,966	864	248	1112	<25.0	116 J	NA	NA
#4	10/30/2019	12	--	--	<25.0	34.8 J	44.7 J	206	40.5 J	<25.0	40.5 J	<25.0	<40.0	NA	NA
#5	10/30/2019	18	--	--	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<50.0	<25.0	<40.0	NA	NA
#6	10/31/2019	14	--	--	<25.0	132	<25.0	310.3	1,360	434	<u>1,794</u>	<25.0	328	NA	NA
#7	10/31/2019	5	--	--	<25.0	34.6 J	<25.0	275	174	39.3 J	213.3	<25.0	80.5 J	NA	NA
#8	10/31/2019	5	--	--	<u>64.1</u> J	294	135	938	592	176	768	<25.0	126 J	NA	NA
#9	10/31/2019	5	--	--	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<50.0	<25.0	<40.0	NA	NA
#10	11/1/2019	5	--	--	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<50.0	<25.0	<40.0	NA	NA
B4R	10/18/2021	14.5-15	363	--	<u>193</u>	619	<28.5	1,860	1,120	340	<u>1,460</u>	<28.5	384	NA	NA

Table A.2 Soil Analytical Results Summary - PVOCs
Former Bob's Citgo - Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	1,2,4- & 1,3,5-TMB Combined	MTBE	Naphthalene	Lead (mg/kg)	Other VOCs
B21	10/18/2021	12.5-15	1167	--	<u>128</u> J1	<u>6,010</u>	168	<u>16,200</u>	20,700	6,760	<u>27,460</u>	<66.8	<u>4,180</u>	NA	NA
B22	10/18/2021	8-10	0.0	--	<31.8	<31.8	<31.8	<95.3	<31.8	<31.8	<63.6	<31.8	<31.8	NA	NA
	10/18/2021	19-20	173	--	<u>907</u>	<u>34,100</u>	<u>32,000</u>	<u>138,000</u>	78,200	27,000	<u>105,200</u>	<u>1,350</u>	<u>12,000</u>	NA	NA
B23	10/18/2021	3-4	0.8	--	<u>59.5</u> J1	<32.6	<32.6	<97.9	<32.6	<32.6	<65.2	<32.6	<32.6	NA	NA
	10/18/2021	14-14.5	3.6	--	<27.9	<27.9	<27.9	<83.6	<27.9	<27.9	<55.8	<27.9	<27.9	NA	NA
B24	10/18/2021	3-4	1.3	--	<30.2	<30.2	<30.2	<90.5	<30.2	<30.2	<60.4	<30.2	<30.2	NA	NA
	10/18/2021	19-20	0.0	--	<26.2	<26.2	<26.2	<78.6	<26.2	<26.2	<52.4	<26.2	<26.2	NA	NA
B25	10/18/2021	3-4	43.1	(1)	<284	1,050	568 J1	3,620	5,300	2,860	<u>8,160</u>	<284	<u>5,540</u>	NA	NA
	10/18/2021	10-12	177	--	<31.0	154	<31.0	403	400	244	644	<31.0	<u>665</u>	NA	NA
	10/18/2021	14-15	9.8	--	<27.4	<27.4	<27.4	<82.2	94.8	<27.4	94.8	<27.4	33.4 J1	NA	NA
Trip Blank	10/18/2021	--	--	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	<25.0	NA	NA
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					5.1	1,570	1,107.2	3,960	(a)		1,378.7	27	658.2	27	
NR 720 Non-Industrial Direct Contact RCLs					1,600	8,020	818,000	260,000	219,000	182,000	NE	63,800	5,520	400	
NR 720 Industrial Direct Contact RCLs					7,070	35,400	818,000	260,000	219,000	182,000	NE	282,000	24,100	800	
CAS No.					71-43-2	100-41-4	108-88-3	1330-20-7	95-63-6	108-67-8	--	1634-04-4	91-20-3	7439-92-1	

Abbreviations:

µg/kg = micrograms per kilogram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
CAS No. = Chemical Abstracts Service Number
-- = Not Applicable

DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
ppm = parts per million

MTBE = Methyl-tert-butyl ether
TMB = Trimethylbenzene
RCLs = Residual Contaminant Levels
VOCs = Volatile Organic Compounds

NA = Not Analyzed
ND = Not Detected
NE = No Standard Established

Notes:

Bold+underlined values exceed an NR 720 RCL, as of December 2018.

* All samples except MW1 at 53 feet are unsaturated.

(a) NR 720 Groundwater Pathway RCLs for 1,2,4 and 1,3,5 Trimethylbenzene Combined = 1,378.7

Laboratory Notes/Qualifiers:

J = Compound detected below limit of quantitation.

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

(1) - Surrogates a,a,a-Trifluorotoluene (S) = D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Created by:	<u>AJR</u>	Date:	<u>10/27/2021</u>
Last revision by:	<u>BJS</u>	Date:	<u>12/25/2021</u>
Checked by:	<u>BJS</u>	Date:	<u>12/25/2021</u>
Proj Mgr QA/QC:	<u>BJS</u>	Date:	<u>12/25/2021</u>

I:\25221172.00\Deliverables\2022-2 GWM Reprt\Tables\[Table A.2_Soil_Analytical Results_PVOCs1.xlsx]Soil PVOCs

Table A.6 Water Level Elevations
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00

	Depth to Water in feet below top of well casing									
	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10
Measurement Date										
11/4/2010	53.15									
3/3/2011	53.92	51.18	54.02							
9/15/2011	54.85	59.17	54.67	55.9	57.85	57.06				
8/15/2013	55.92	51.3	52.68	57.45	60.77	59.14				
9/11/2013	55.16	48.01	52.06	57.1	60.23	58.77	60.86	64.39	59.61	61.29
5/28/2015	57.51	50.25	55.51	58.95	62.76	60.84	63.54	67.17	61.91	64.56
6/24/2017	53.78	48.35	53.81	52.91	56.86	59.16	61.03	64.72	60.29	62.24
10/23/2017	54.65	46.36	51.78	56.2	58.59	57.49	59.08	62.75	58.05	59.57
7/8/2021	52.46	47.61	51.73	53.75	54.83	54.43	55.50	59.09	54.16	56.48
10/19/2021	53.56	50.21	52.54							57.89

Ground Water Elevation in feet above mean sea level (amsl)										
Well Number	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10
Top of Casing Elevation* (feet amsl)	874.49	873.75	874.81	874.59	875.04	874.85	875.26	878.45	874.57	876.37
Screen Length (ft)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15
Total Depth (ft from top of casing)	62.40	61.90	62.80	63.30	63.70	64.30	69.50	73.60	65.60	69.1
Top of Well Screen Elevation (ft)	827.09	826.85	827.01	826.29	826.34	825.55	820.76	819.85	823.97	822.27
Measurement Date										
11/4/2010	821.34									
3/3/2011	820.57	822.78	821.03							
9/15/2011	819.64	814.79	820.38	818.7	817.35	817.74				
8/15/2013	818.57	822.66	822.37	817.15	814.43	815.66				
9/11/2013	819.33	826.12	822.99	817.5	814.97	816.03	814.4	814.06	814.96	815.39
5/28/2015	816.98	823.85	819.54	815.65	812.44	813.96	811.72	811.28	812.66	812.12
6/24/2017	820.71	825.76	821.24	821.69	818.34	815.64	814.23	813.73	814.28	814.44
10/23/2017	819.84	827.62	823.27	818.4	816.61	817.31	816.18	815.7	816.52	817.11
7/8/2021	822.03	826.14	823.08	820.84	820.21	820.42	819.76	819.36	820.41	819.89
10/19/2021	820.93	823.54	822.27							818.48
Bottom of Well Elevation (ft)	812.09	811.85	812.01	811.29	811.34	810.55	805.76	804.85	808.97	807.27

Notes:

*Wells MW1-MW6, & MW19 were resurveyed 7/8/2021. Wells MW2, MW3, MW5 & MW10 casings were cut down 0.2' on 7/8/2021.

Depth to water measurements and groundwater elevations prior to 7/8/2021 are from Seymour Environmental reports.

Red indicates free product present; elevation not corrected for product.

Blank indicated well not installed, or water level not measured.

Created by:	<u>BJS</u>	Date:	<u>7/25/2021</u>
Last revision by:	<u>BJS</u>	Date:	<u>12/25/2021</u>
Checked by:	<u>BJS</u>	Date:	<u>2/17/2022</u>
Proj Mgr QA/QC:	<u>BJS</u>	Date:	<u>2/17/2022</u>

Table A.7. Slug Test Parameters and Test Results
Former Bob's Citgo - Milton, Wisconsin / SCS Engineers Project #25221172.00

	DTW (static)	H(0)	H	b	d	L	T	r(c)	r(w)	r(sk)	K
	Depth to water from top of casing (ft)	Initial Displacement	static column height	Aquifer saturated thickness	Depth to top of screen (from water or top of confined unit)	Submerged screen length	Transducer depth	Casing Radius (ft)	Well Radius (ft)	(ft)	(cm/sec)
MW1	53.56	1.567	8.84	100	0.00	8.84	7.92	0.0833	0.35	0.35	2.08E-04
MW2	50.21	2.591	11.69	100	0.00	11.69	8.90	0.0833	0.35	0.35	1.69E-04
MW3	52.54	2.282	10.26	100	0.00	10.26	8.96	0.0833	0.35	0.35	5.79E-04
MW10	57.89	1.378	11.21	100	0.00	11.21	9.55	0.0833	0.35	0.35	0.2003

Notes:

DTW Static - Measured prior to testing on 10/19/2021

H(0) - see slug test data. Difference between measurement at initiation of test & static measurement.

saturated thickness - Assumed 100 ft (sandy till & outwash)

Screen length - 15' across the water table. Actual saturated screen interval length used for unconfined aquifer analysis.

Transducer depth - Depth taken from data logger recording ~5 seconds before initiation of test. See data logger files for each test.

Casing radius - 0.09 for Sch. 40 PVC, 0.08 for Sch. 80 PVC (wells >50 ft deep).

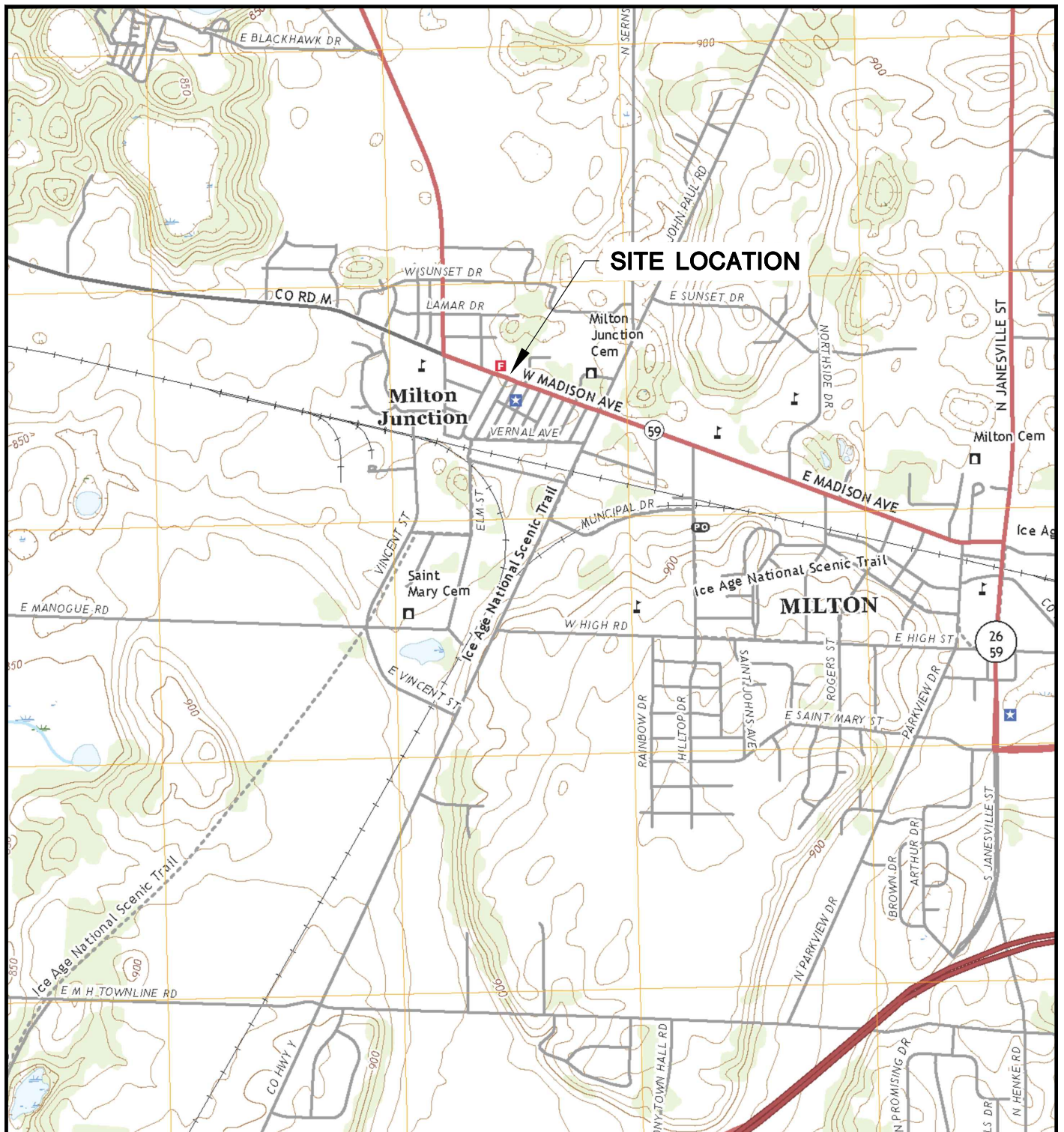
Well borehole radius - 0.6875 (assumed to be installed with 8-1/4" auger)

Prepared by: JK: 1/10/2022

Checked by: REL 1/10/2022

Figures

- 1 – Site Location Map
- B.2.a. – Soil Contamination
- B.3.a – Geologic Cross Section Locations
- B.3.a.a – Geologic Cross Section A-A'
- B.3.a.b. – Geologic Cross Section B-B'
- B.3.b. – Groundwater Isoconcentration
- B.3.c. – Groundwater Flow Direction – 07/08/2021
- B.3.c.a. – Groundwater Flow – 07/08/2021

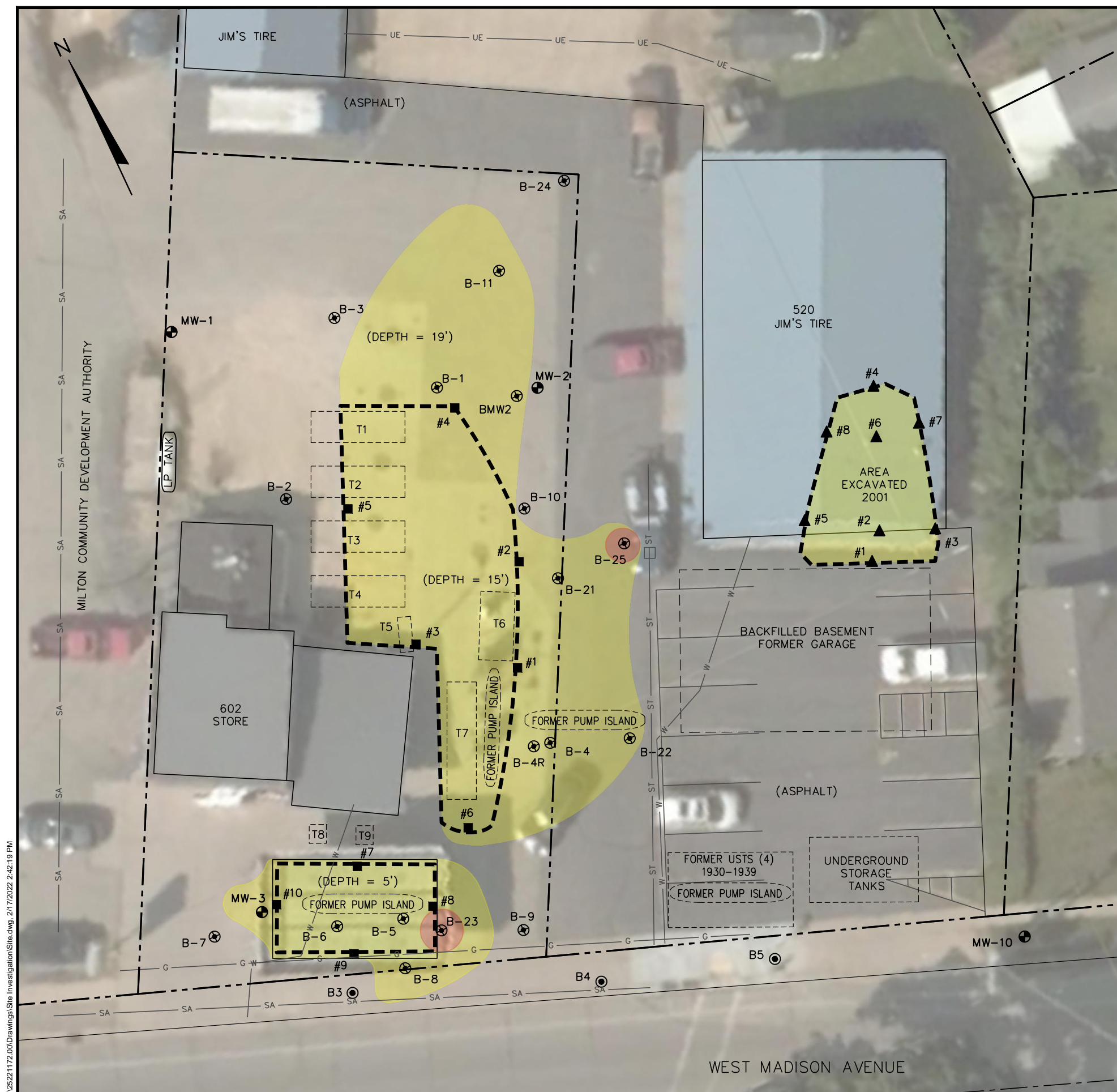

















MILTON QUADRANGLE
WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018

1000 0 1000 2000
FEET



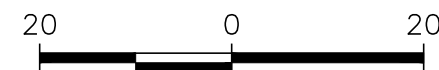
CLIENT MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN	SITE LOCATION MAP	
PROJECT NO. 25221172.00	DRAWN BY: KP	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE 1
DRAWN: 08/02/2021	CHECKED BY: BJS		
REVISED: 08/02/2021	APPROVED BY: BJS 08/03/2021		



LEGEND	
	PROPERTY LINE (APPROXIMATE)
	GAS MAIN
	SANITARY SEWER
	STORM SEWER
	UNDERGROUND ELECTRIC
	WATER MAIN
603	W. MADISON AVENUE ADDRESS
	SOIL BORING
	GEOPROBE SOIL BORING
	MONITORING WELL
	UNDERGROUND STORAGE TANK (UST)
	APPROXIMATE REMEDIAL EXCAVATION LIMIT
	EXCAVATION SAMPLE
	2002 EXCAVATION SAMPLE
	UNSATURATED SOIL CONTAMINATION EXCEEDS AN NR 720 GROUNDWATER PATHWAY RCL.
	UNSATURATED SOIL CONTAMINATION EXCEEDS AN NR 720 DIRECT CONTACT RCL (0-4' DEPTH)

UST LEGEND		
T1	DIESEL	
T2	UNLEADED	GAS
T3	UNLEADED	GAS
T4	UNLEADED	GAS
T5	KEROSENE	
T6	KEROSENE	
T7	KEROSENE	(REMOVED IN 2008)
T8		(REMOVED IN 2008)
T9		(REMOVED IN 2000)

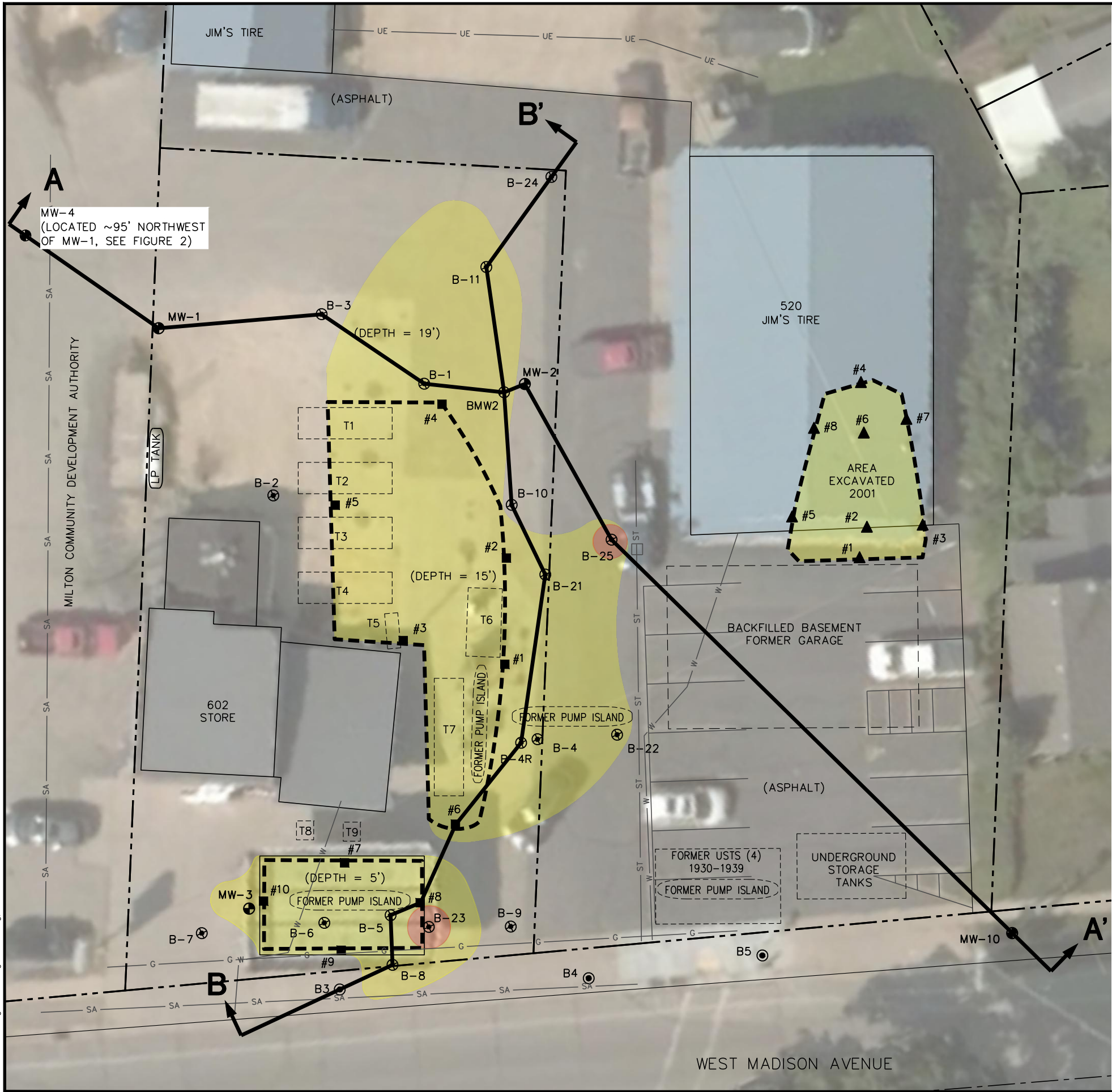
- NOTES:
-
1. MONITORING WELL AND BORING (B-1 THROUGH B-10) FROM BASE MAP PREPARED BY SEYMOUR ENVIRONMENTAL SERVICES, INC., JULY 2015.
 2. ALL USTS HAVE BEEN REMOVED.
 3. LIMITS OF EXCAVATION FROM SEYMOUR ENVIRONMENTAL SERVICES, INC., FIGURE 1, REMEDIAL EXCAVATION DETAILS, JANUARY 21, 2020.
 4. 2001 EXCAVATION EXTENT AND SAMPLE LOCATIONS FROM MORAINÉ ENVIRONMENTAL, FIGURE 2, JANUARY 8, 2002.
 5. LOCATION OF JIM'S TIRE FORMER GARAGE, UST SYSTEM, AND BORINGS IN RIGHT-OF-WAY FROM WDOT PHASE 2 REPORT, NOVEMBER 30, 1992.
 6. PROPERTY LINES ARE APPROXIMATE AND WERE OBTAINED FROM THE WISCONSIN STATEWIDE PARCEL MAP INITIATIVE. INFORMATION OBTAINED FROM WISCONSIN'S COUNTIES AND CITIES IN 2020 AND THIS MAY NOT BE THE MOST CURRENT, COMPREHENSIVE DATA AVAILABLE.
 7. AERIAL PHOTOGRAPH FROM BING MAPS, AS BROUGHT IN BY AUTOCAD. NO DATE IMAGE PROVIDED.



SCALE: 1" = 20'

CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN	SOIL CONTAMINATION
<div>PROJECT NO. 25221172.00</div> <div>DRAWN: 10/12/2021</div> <div>CHECKED BY: BJS</div> <div>DRAWN BY: KP</div> <div>APPROVED BY: BJS 02/17/2022</div>				
<div>SCS ENGINEERS</div> <div>2830 DAIRY DRIVE MADISON, WI 53718-6751</div> <div>PHONE: (608) 224-2830</div>				FIGURE
				B.2. a

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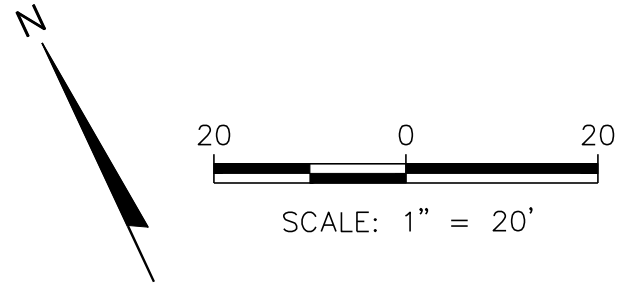


- LEGEND
- PROPERTY LINE (APPROXIMATE)
 - G GAS MAIN
 - SA SANITARY SEWER
 - ST STORM SEWER
 - UE UNDERGROUND ELECTRIC
 - W WATER MAIN
 - 603 W. MADISON AVENUE ADDRESS
 - SOIL BORING
 - GEOPROBE SOIL BORING
 - MONITORING WELL
 - UNDERGROUND STORAGE TANK (UST)
 - APPROXIMATE REMEDIAL EXCAVATION LIMIT
 - EXCAVATION SAMPLE
 - 2002 EXCAVATION SAMPLE
 - UNSATURATED SOIL CONTAMINATION EXCEEDS AN NR 720 GROUNDWATER PATHWAY RCL.
 - UNSATURATED SOIL CONTAMINATION EXCEEDS AN NR 720 DIRECT CONTACT RCL (0-4' DEPTH)

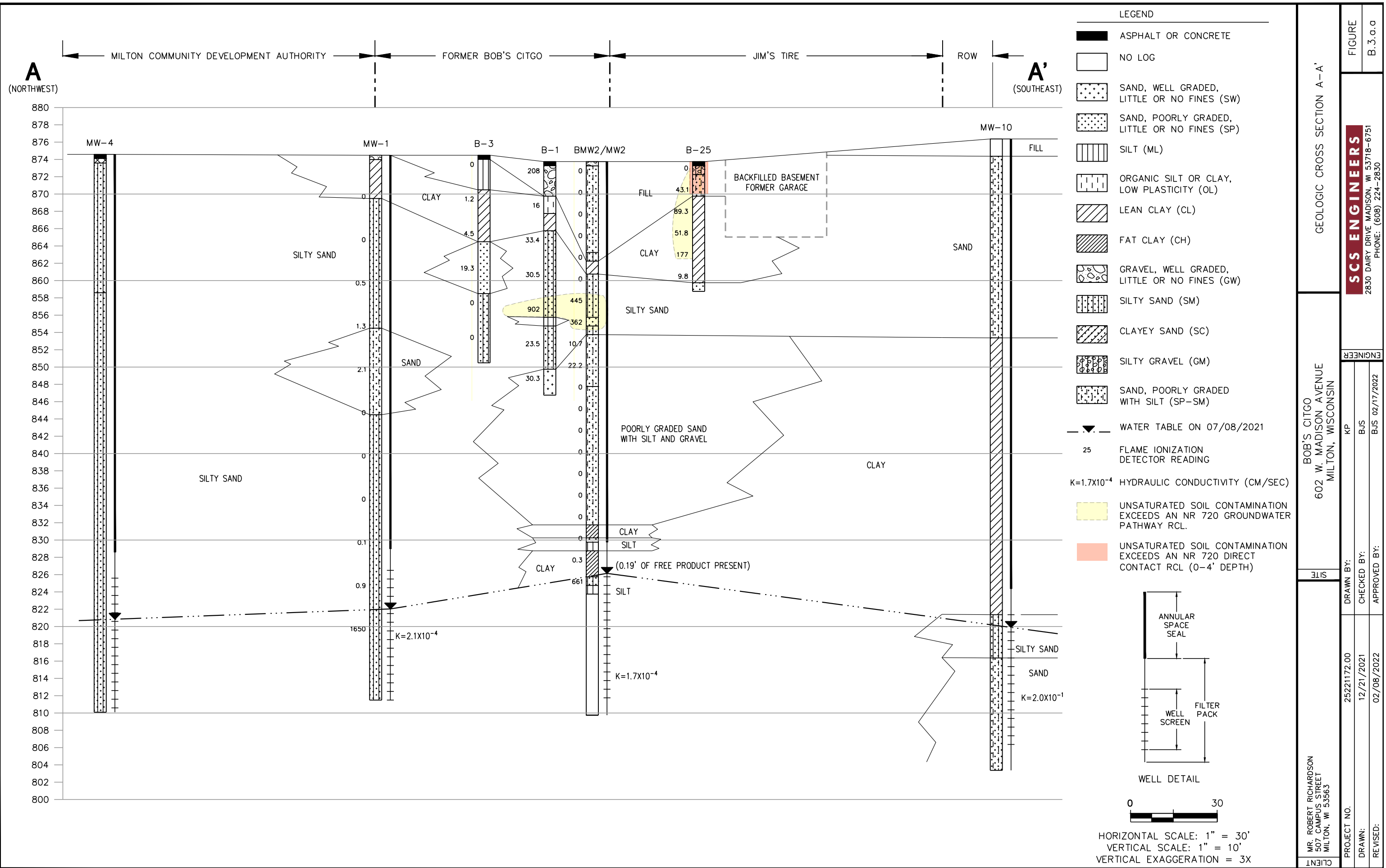
- UST LEGEND
- T1 DIESEL
 - T2 UNLEADED GAS
 - T3 UNLEADED GAS
 - T4 UNLEADED GAS
 - T5 KEROSENE
 - T6 KEROSENE
 - T7 KEROSENE (REMOVED 2008)
 - T8 (REMOVED 2008)
 - T9 (REMOVED 2000)

NOTES:

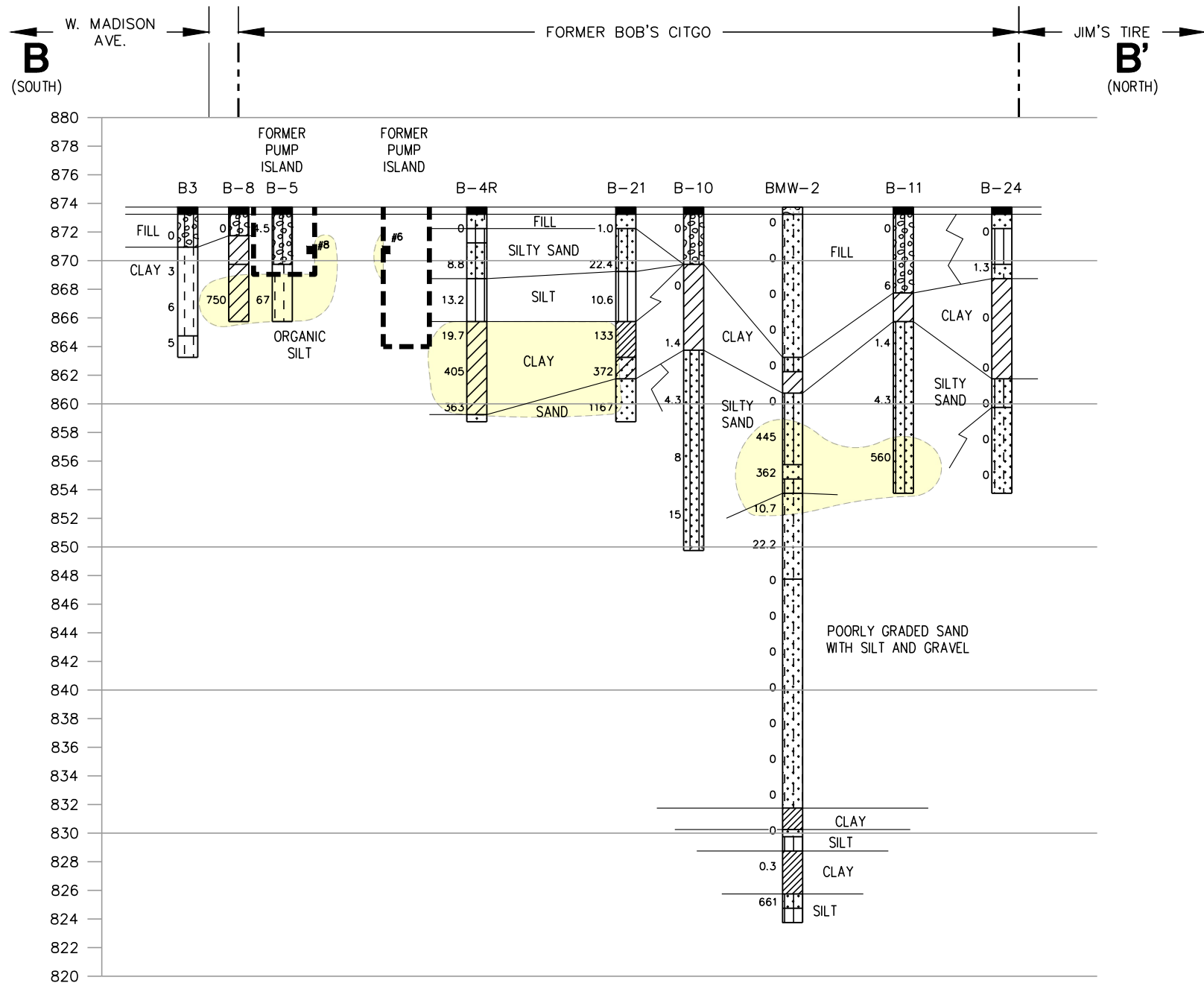
1. SEE FIGURE B.2.a FOR BASE MAP NOTES.



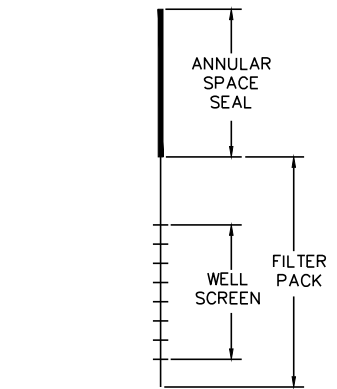
CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563		BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN		GEOLOGIC CROSS SECTION LOCATIONS	
	PROJECT NO. 25221172.00		DRAWN BY: KP		ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830
			CHECKED BY: BUS			
			APPROVED BY: BUS 02/17/2022			
DRAWN: 12/21/2021				FIGURE		
REVISED: 02/17/2022						B.3.a



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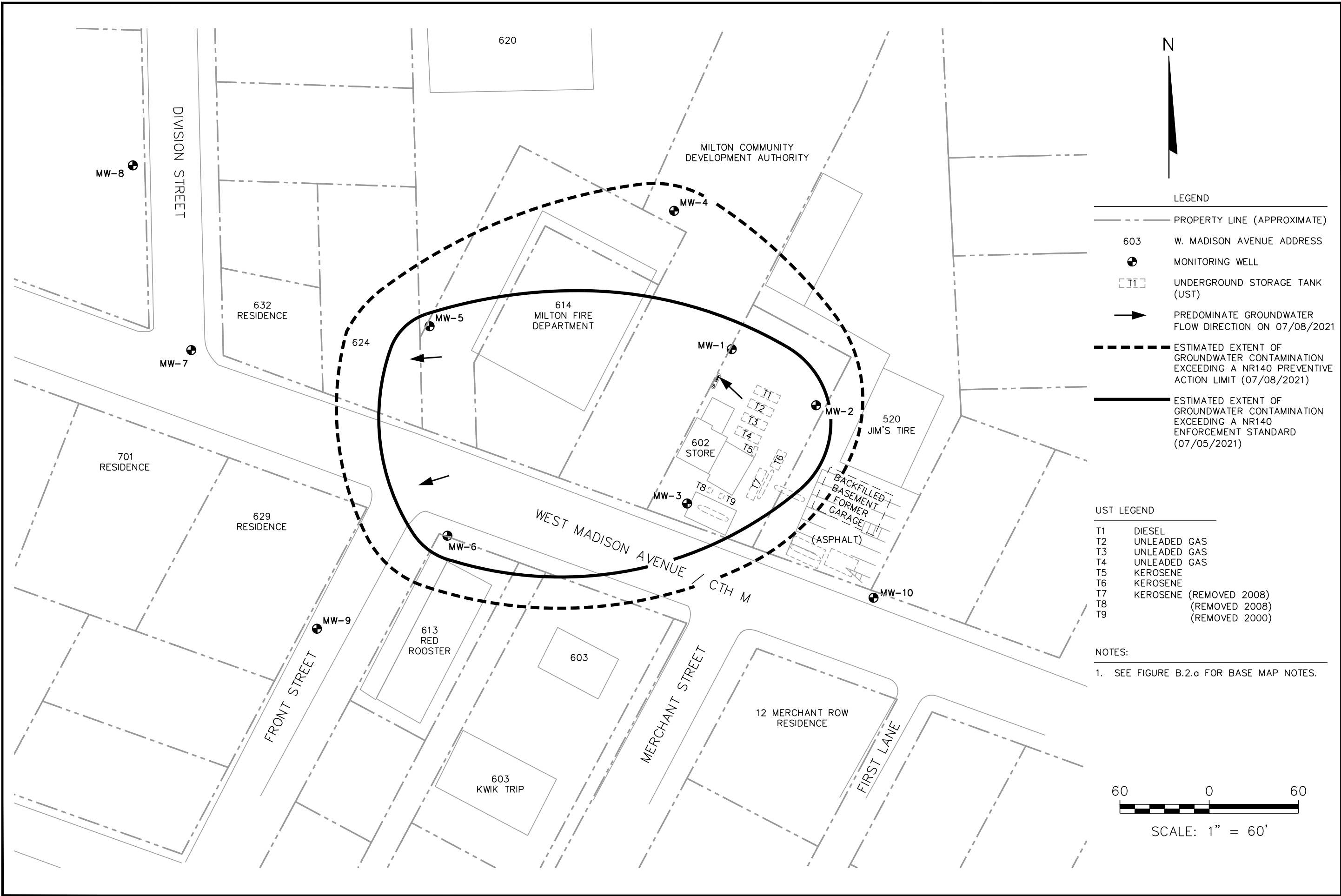
- LEGEND
- ASPHALT OR CONCRETE
 - SAND, POORLY GRADED, LITTLE OR NO FINES (SP)
 - SILT (ML)
 - ORGANIC SILT OR CLAY, LOW PLASTICITY (OL)
 - LEAN CLAY (CL)
 - FAT CLAY (CH)
 - GRAVEL, WELL GRADED, LITTLE OR NO FINES (GW)
 - SILTY SAND (SM)
 - CLAYEY SAND (SC)
 - SILTY GRAVEL (GM)
 - SAND, POORLY GRADED WITH SILT (SP-SM)
 - WATER TABLE ON 07/08/2021
 - FLAME IONIZATION DETECTOR READING
 - REMEDIAL SOIL EXCAVATION
 - UNSATURATED SOIL CONTAMINATION EXCEEDS AN NR 720 GROUNDWATER PATHWAY RCL.



HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'
VERTICAL EXAGGERATION = 3X

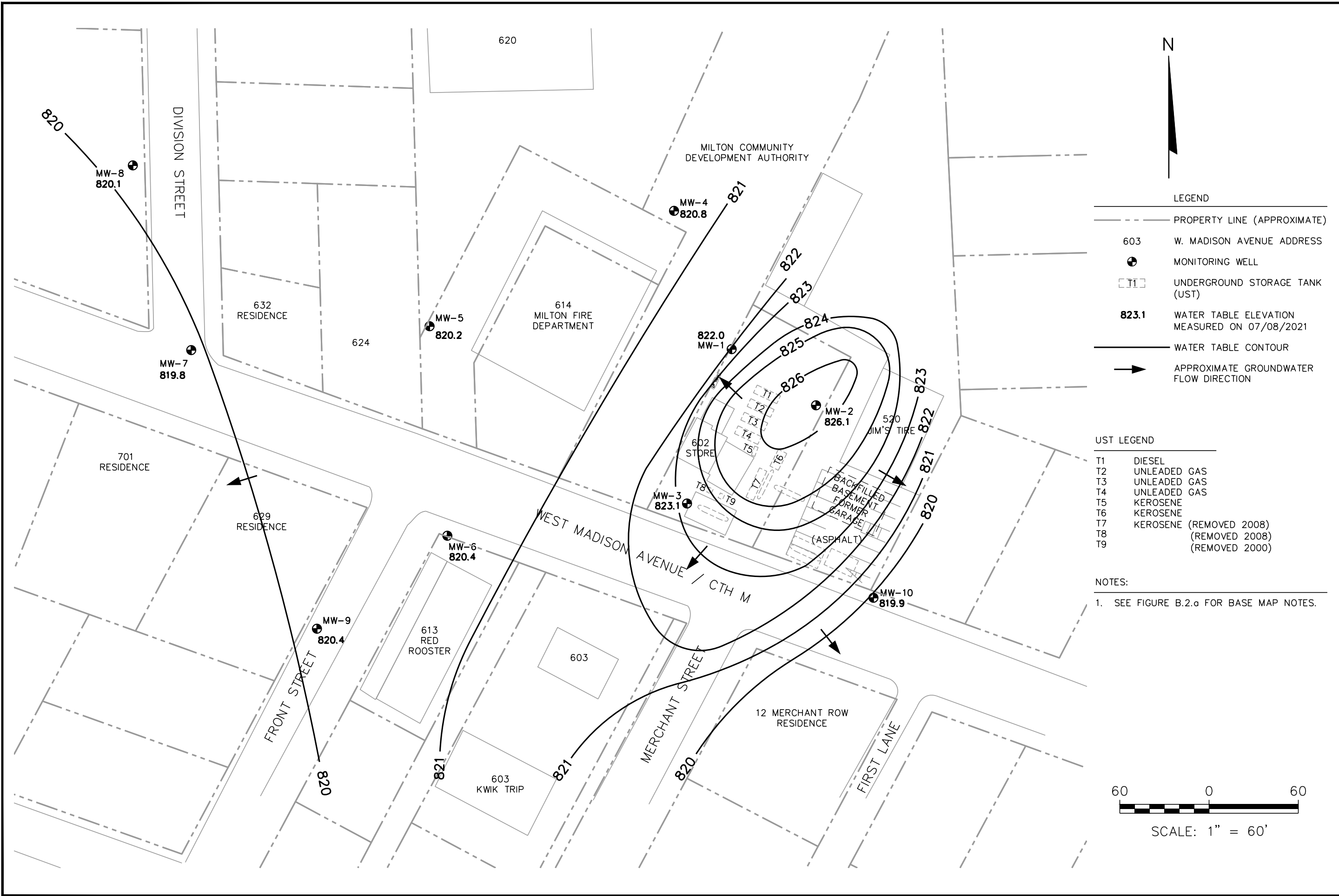
CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN		GEOLOGIC CROSS SECTION B-B'		
PROJECT NO.		25221172.00		DRAWN BY: KP		SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE
DRAWN:		12/21/2021		CHECKED BY: BUS			
REVISED:		02/08/2022		APPROVED BY: BUS 02/17/2022			

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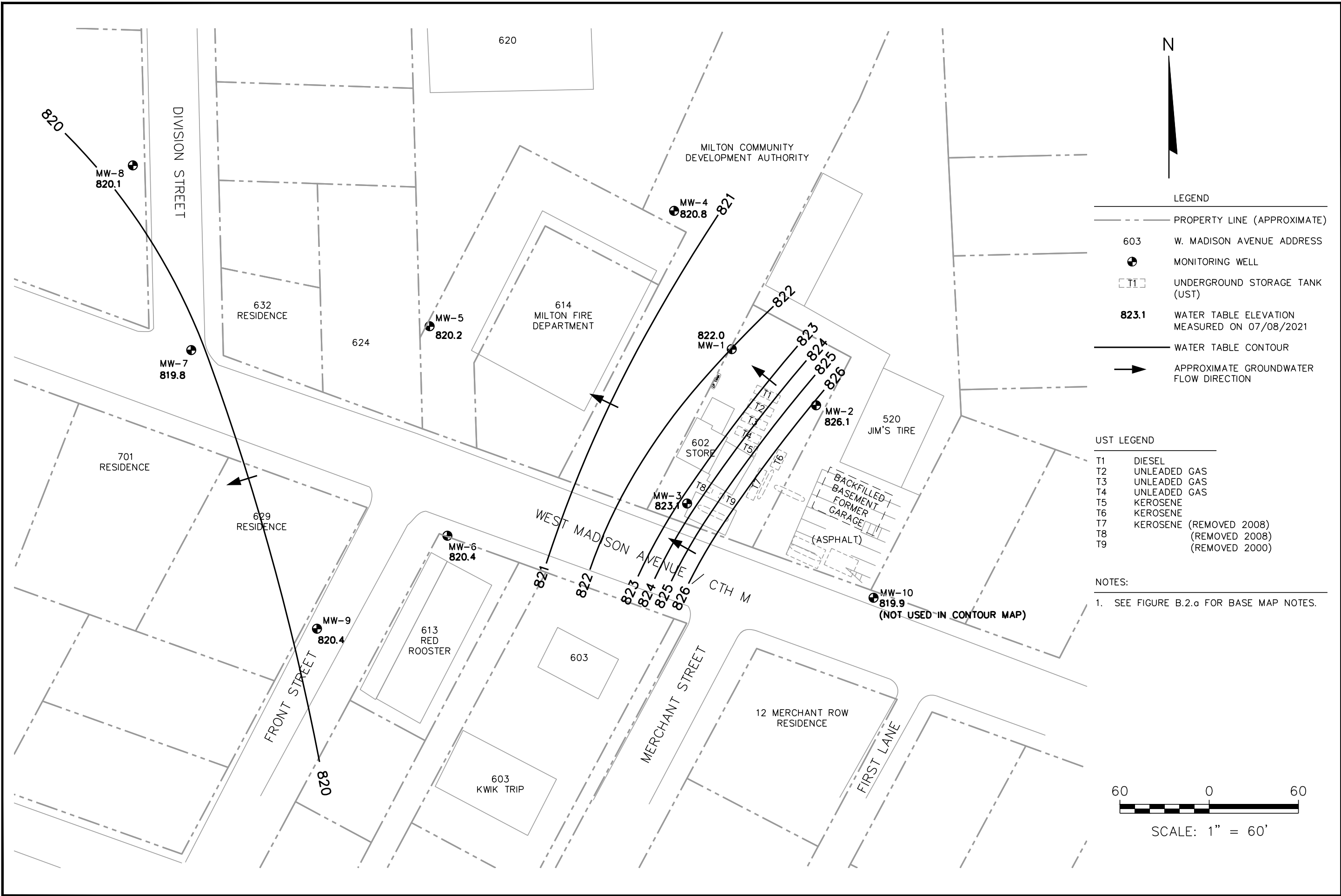
CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563		SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN		GROUNDWATER ISOCONCENTRATION	
	PROJECT NO. 25221172.00		DRAWN BY: KP		<div>SCS ENGINEERS</div> <div>2830 DAIRY DRIVE MADISON, WI 53718-6751</div> <div>PHONE: (608) 224-2830</div>		
	DRAWN: 12/28/2021		CHECKED BY: BUS				
	REVISED: 02/08/2022		APPROVED BY: BUS 02/17/2022				
				ENGINEER		FIGURE	
						B.3.b	

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CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN	GROUNDWATER FLOW DIRECTION 07/08/2021				
PROJECT NO.		25221172.00		DRAWN BY:		SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE	
DRAWN:		08/02/2021		CHECKED BY:				
REVISED:		02/08/2022		APPROVED BY:				
				BUS 02/17/2022				
ENGINEER		KP		BUS				B.3.c

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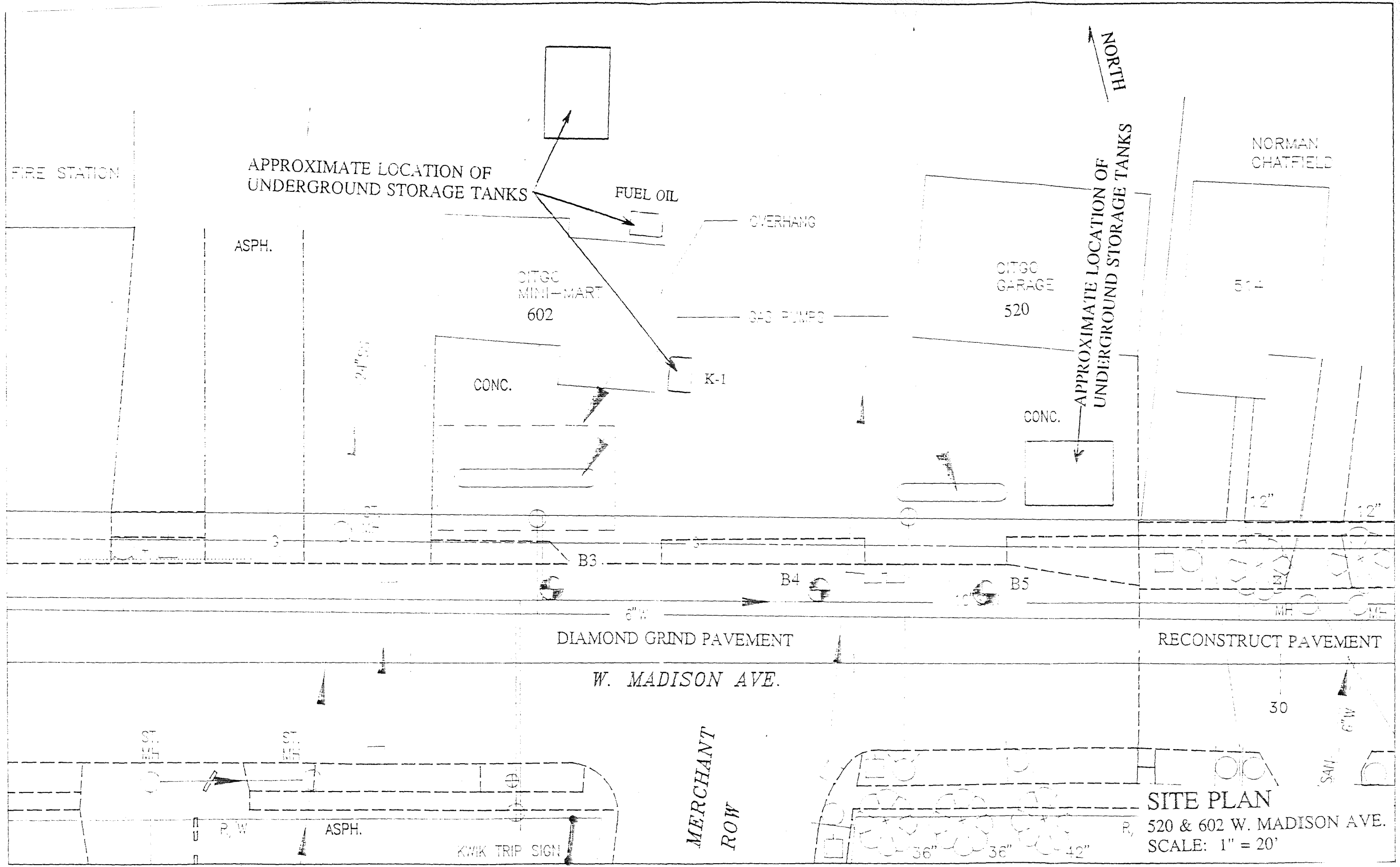


CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN		GROUNDWATER FLOW 07/08/2021		FIGURE
PROJECT NO.		25221172.00		DRAWN BY:		ENGINEER	
DRAWN:		08/02/2021		CHECKED BY:		KP	
REVISED:		02/14/2022		APPROVED BY:		BUS	
						BUS 02/17/2022	
						SCS ENGINEERS	
						2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	
						B. 3. c. a	



Appendix A

Boring Logs & Well Forms



PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B1
CLIENT WISDOT	METHOD 4HSA	SHEET 1 OF 1	
PROJECT Phase II Site Assessment	STA. 95+60	SURFACE ELEV.	
LOCATION 610 E. Madison Avenue Milton, WI	OFFSET 23' LT	DATE 9-25-92	

DESCRIPTION	DEPTH	SAMPLE	N	Q _u	Q _v	M _c	FID PID	REMARKS
Asphalt/Concrete Surface	0.5'							
Silty Clay, Brown, Moist	2	1	6				0	GRO, DRO
	4							
Sand, Brown, Moist	5.0'	2	13				0	
	6							
	3	3	23				0	GRO
	10	4	29				0	
Boring Terminated	10.5'							
	12							

GROUND WATER OBSERVATIONS

While drilling	No Water	Time after drilling			
After Boring Completed	No Water	Depth to water			
Cave-In		Depth to cave-in			
Backfill Material	Bentonite	Water Notes			

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B2
CLIENT WISDOT		METHOD 4HSA	SHEET 1 OF 1
PROJECT Phase II Site Assessment		STA. 26+78	SURFACE ELEV.
LOCATION 613 W. Madison Avenue Milton, WI		OFFSET 18' RT	DATE 9-25-92

DESCRIPTION	DEPTH	SAMPLE	N	Q _s	Q _t	M _c	FID PID	REMARKS
Concrete Surface	0.5'							
Gravel Fill								
	2	1	12				0	Pest.
	2.5'							
Topsoil								
	4							
	5.0'	2	8				0	Pest.
Clay, Brownish Gray (mottled), Moist	6							
	6.5'							
Silty Clay, Brown, Moist		3	7				0	
	8							
	8.5'							
Sand, Brown, Wet		4	4				0	
	10							
	10.5'							
Boring Terminated								
	12							

GROUND WATER OBSERVATIONS

While drilling	No Water	Time after drilling				
After Boring Completed	No Water	Depth to water				
Cave-In		Depth to cave-in				
Backfill Material	Bentonite	Water Notes				

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

T. N. & ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B3
CLIENT WISDOT		METHOD 4HSA	SHEET 1 OF 1
PROJECT Phase II Site Assessment		STA. 28+33	SURFACE ELEV.
LOCATION 620 W. Madison Avenue Milton, WI		OFFSET 16.5' LT	DATE 9-25-92

[illegible]

GROUND WATER OBSERVATIONS

While drilling	No Water	Time after drilling				
After Boring Completed	No Water	Depth to water				
Cave-In		Depth to cave-in				
Backfill Material	Bentonite	Water Notes				

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B4
CLIENT WISDOT	METHOD 4HSA		SHEET 1 OF 1
PROJECT Phase II Site Assessment	STA. 28+92		SURFACE ELEV.
LOCATION 520 W. Madison Avenue Milton, WI	OFFSET 16.0' LF		DATE 9-25-92

DESCRIPTION	DEPTH	SAMPLE	N	Q _a	Q _r	M _c	FID PID	REMARKS
Concrete Surface	0.5'							
Gravel Fill								
	2	1	22				10	GRO
Organic Topsoil, Black Moist	2.5'							
	3.5'							
Silty Clay, Brown Moist	4							
		2	7				11	GRO
	6.0'							
Sand, Brown, Moist	6							
		3	6				0	
Boring Terminated	8.0'							
	8							
	10							
	12							

GROUND WATER OBSERVATIONS

While drilling	No Water	Time after drilling				
After Boring Completed	No Water	Depth to water				
Cave-In		Depth to cave-in				
Backfill Material	Bentonite	Water Notes				

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B5						
CLIENT WISDOT		METHOD 4HSA		SHEET 1 OF 1					
PROJECT Phase II Site Assessment		STA. 29+29		SURFACE ELEV.					
LOCATION 520 W. Madison Avenue Milton, WI		OFFSET 15.8' LF		DATE 9-25-92					

DESCRIPTION	DEPTH	SAMPLE	N	Q _s	Q _t	M _c	FID PID	REMARKS
Concrete	0.5'							
Gravel Fill, Brown, Moist	2	1	33				0	
	4	2	18				0	GRO
	6							
	8	3	14				0	
Boring Terminated								

GROUND WATER OBSERVATIONS

While drilling No Water Time after drilling _____

After Boring Completed No Water Depth to water _____

Cave-In _____ Depth to cave-in _____

Backfill Material Bentonite Water Notes _____

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch O.D. split-spoon.

Qu: Unconfined compressive strength, TSF

Qp: Penetrometer value, unconfined compressive strength, TSF

Mc: Water content, %

LL: Liquid limit, %

PI: Plasticity Index, %

γ: Apparent groundwater level at time noted after completion.

DRILLING AND SAMPLING SYMBOLS

SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.

ST: Shelby Tube - 3" O.D., except where noted.

AU: Auger Sample

DB: Diamond Bit

CB: Carbide Bit

WS: Washed Sample

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATIONTERM (NON-COHESIVE SOILS)STANDARD PENETRATION RESISTANCE

Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

TERM (COHESIVE SOILS)Qu - (TSF)

Very Soft	0 - 0.25
Soft	0.25 - 0.50
Firm (Medium)	0.50 - 1.00
Stiff	1.00 - 2.00
Very Stiff	2.00 - 4.00
Hard	4.00 +

PARTICLE SIZE

Boulders	8 in. +	Coarse Sand	5mm-0.6mm	Silt	0.0074mm-0.005mm
Cobbles	8 in.-3 in.	Medium Sand	0.6mm-0.2mm	Clay	-0.005mm
Gravel	3 in.-5mm	Fine Sand	0.2mm-0.074mm		

ENVIRONMENTAL ACRONYMS

FID	Flame Ionization Detector	TPH	Total Petroleum Hydrocarbons
PID	Photon Ionization Detector	GRO	Gasoline Range Organics
VOC	Volatile Organic Compound	DRO	Diesel Range Organics
TOC	Total Organic Carbon	TLC	Temperature, Level, Conductivity

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-1				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
1/4 of 1/4 of Section T N R W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	28	Surf	Asphalt										
			Base coarse-sandy gravel			GW	208						
2	32	4	Dark gray peaty clay			OL	16						
			Change to slightly silty clay			CL							
3	44	8	Gray silty clay				33.4						
			Change to brown fine sand			SM							
4	48	12	Same as above				30.5						
5	46	16	Stained layer 2-inches thick			SM	902						
			Underlain by silt layer			ML							
			Change to light brown f-sand			SM							
6	42	20	Same as above			SM	23.5						
7	32	24	Change to sand and pea gravel			SW	30.3						
			Refusal at 27 ft										
		28											

Signature *Robyn Seymour*

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-2				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
1/4 of 1/4 of Section T N R W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U N D E R S O I L C O L O R	R Q D	Stable O V E R L A M M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	36	Surf	Asphalt Silty clay Coarse sand				0.4						
2	42	4	Med brown f-m grained sand (fill?)				4.7						
3	48	8	Same as above				5.1						
4	48	12	Change to silty clay, dense Med brown f-m grained				4.9						
5	36	16	Sand (end of fill) V fine brown sand				3.8						
		20	End of Boring 20 ft										

Signature <i>Robyn Seymour</i>	Firm: Seymour Environmental Services, Inc.
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PROJECT NO. 3141-03-01	FIELD REPRESENTATIVE Dan Reek (TNA)	CREW Scott Tromp (PSI)	BORING B3
CLIENT WISDOT		METHOD 4HSA	SHEET 1 OF 1
PROJECT Phase II Site Assessment		STA. 28+33	SURFACE ELEV.
LOCATION 620 W. Madison Avenue Milton, WI		OFFSET 16.5' LT	DATE 9-25-92

DESCRIPTION	DEPTH	SAMPLE	N	Q _s	Q _t	M _c	FID PID	REMARKS
Concrete Surface	0.5'							
Gravel Fill (GM)								
	2	1	11				0	GRO
	2.8'							
Organic Topsoil, Black, Moist	4	2	6				3	
(OL)								
	6							
	8	3	7				6	GRO, DRO Pesticide
	9.0'							
Organic Silt, Greenish Brown Moist (OL)	10	4	7				5	
	10.5'							
Boring Terminated								
	12							

GROUND WATER OBSERVATIONS

While drilling	No Water	Time after drilling			
After Boring Completed	No Water	Depth to water			
Cave-In		Depth to cave-in			
Backfill Material	Bentonite	Water Notes			

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-3				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
____ ¼ of ____ ¼ of Section ____ T ____ N ____ R ____ W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U N C L S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	36	Surf	Asphalt Sandy silt		ML		0						
2	42	4	Change to brown slightly Silty clay		CL		1.2						
3	48	8	Same as above		CL		4.5						
			10 Change to brown fine sand		SW								
4	48	12			SP SW		19.3						
5	36	16	Fine sand with silt layers Dk brown silty sand with sand Layers, moist		SM		0						
		20	Same as above		SM		0						
		24	End of boring 24 ft										
		28											

Signature <i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.			
--------------------------------	--	--	--	--	--	--	--

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

Page 1 of 1

Facility/Project Name Bob's Citgo		License/Permit/Monitoring Number SCS#: 25221172		Boring Number B4R	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services		Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
Borehole Diameter 2.0 in.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E		Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		Facility ID		County Rock	
County Code 54		Civil Town/City/ or Village Milton			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					P 200	RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index			
S1	43		1	CONCRETE											
			2	POORLY GRADED SAND w/ SILT and GRAVEL, very pale brown, dense	SP-SM			0		D					
S2			3	SANDY SILT, dark grey to dark brown, stiff	ML										
			4	SILTY SAND, dark grey to dark brown, dense	SM			8.8		M					
S3	44		5	SILT, dark grey to dark brown, stiff											
			6		ML			13.2		M					
S4			7	LEAN CLAY, grey, stiff											
			8					19.7		M					Petroleum odor beginning at 8' bgs.
S5	55		9												
			10		CL			405		M					
S6			11												
			12												
			13												
			14					363		M					
			15	POORLY GRADED SAND, fine, brown, trace gravel	SP										Lab sample 14.5-15' bgs for PVOC +N.
				EOB @ 15' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.											

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

Signature <i>Jacob Krause</i>	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in 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 this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-4				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
____ % of ____ % of Section ____ T ____ N R ____ W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	44	Surf	Concrete 7-8-inches thick Peaty black clay				3.2						
2	42	4	No change but hydrocarbon odor				75		D = 1720				
		8	End of Boring										

Signature *Robyn Seymour*

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-5				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
____ ¼ of ____ ¼ of Section ____ T ____ N R ____ W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	28	Surf	Concrete 3-inches thick Gravel and sand, some garbage	<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin: 0 auto; width: 2px;"></div>	GW GM		4.5						
2	42	4	Dark gray peaty clay odor		OL		(67)	B = 1190					
		8	End of Boring										

Signature <i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.			
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Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 8/24/05			
Boring or Well Number B-6				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation	
____ % of ____ % of Section ____ T ____ N ____ R ____ W						Grid Location (if applicable)			
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U N D E R S O I L	R E Q U I R E D	Stable O V E R L A M M (vppm)	Soil Properties					Blow Count	
								q	W	LL	PL	P200		
1	28	Surf	Concrete 3-inches thick				1.2							
			Sand											
			Dark gray peaty clay											
2	42	4	Same as above											
		8	End of Boring											

Signature Robyn Seymour

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo - 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)				Date Installed 4/6/2011					
Boring or Well Number B-7				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level dry	
1/4 of 1/4 of Section T N R W				Grid Location (if applicable)					
County		Rock		County Code 54		Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	28	Surf	Asphalt										
			Base coarse-sandy gravel		GW		0						
2	36	4	Dark brown peaty clay		OL		6						
			Change to slightly silty clay		CL								
3	44	8	Brown silty clay				1.4						
			Change to brown fine sand		SM								
4	48	12	Same as above				4.3						
5	48	16	same as above		SM		12						
			Staining noted		ML		26						
			Change to light gray f-sand		SM		45						
		20	End of Boring										

Signature <i>Robyn Seymour</i>	Firm: Seymour Environmental Services, Inc.
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Facility/Project Name Bob's Citgo -- 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)				Date Installed 4/6/2011					
Boring or Well Number B-8		WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level dry		Surface Elevation	
____ % of ____ % of Section ____ T ____ N R ____ W				Grid Location (if applicable)					
County Rock		County Code 54		Civil Town Milton					

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	W E L L L A M	D I A G R A M	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
									q	W	LL	PL	P200	
1	36	Surf	Asphalt											
			Base coarse-sandy gravel			GM		0						
			Change to slightly silty clay			CL								
2	48	4	Change to gray slightly silty clay, hydrocarbon odor			CL		750						
		8	End of Boring											

Signature *Robyn Seymour*

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 4/6/2011			
Boring or Well Number B-9				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level dry	
Surface Elevation									
1/4 of 1/4 of Section T N R W				Grid Location (if applicable)					
County Rock		County Code 54		Civil Town Milton					

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	W E L L I D E N T I F I C A T I O N	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	32	Surf	Asphalt										
			Base coarse-sandy gravel		GW		0						
2	36	4	Dark brown stiff clay, sl. silt		CL		0						
			Change to slightly silty clay		CL								
3	44	8	Brown silty clay		CL		1.8						
			Change to brown fine sand		SM								
		12	End of boring										

Signature <i>Robyn Seymour</i>	Firm: Seymour Environmental Services, Inc.
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Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number						
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 4/6/2011						
Boring or Well Number B-10				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation				
____ ¼ of ____ ¼ of Section ____ T ____ N ____ R ____ W				Grid Location (if applicable)								
County		Rock		County Code 54		Civil Town Milton						
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION		W E L L	D I A M E T E R	U S C S	R Q D	Stable O V M (vppm)	Soil Properties q W LL PL P200		Blow Count
1	28	Surf	Asphalt									
			Base coarse-sandy gravel (fill)				GM GW		0			
2	36	4	Dark brown clay				CL		0			
			Change to slightly silty clay				CL					
3	44	8	Brown silty clay						1.4			
		10'	Change to brown fine sand				SM					
4	48	12	Same as above						4.3			
5	48	16	Same as above				SM		8			
6	40	20	Same as above				SM		15			
		24	End of Boring									

Signature *Robyn Seymour*

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number				
Boring Drilled by Soil Essentials (Cory Johnson) Seymour Environmental (Robyn Seymour)						Date Installed 4/6/2011				
Boring or Well Number B-11		WI Unique Well Number (assigned by DNR)			Borehole Diameter 2-inch		Water Level		Surface Elevation	
¼ of ¼ of Section T N R W						Grid Location (if applicable)				
County Rock		County Code 54			Civil Town Milton					

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A G R A M W E L L	U S C S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	28	Surf	Asphalt				0						
			Base coarse-sandy gravel										
2	36	4	Dark brown peaty clay		OL		6						
			Change to slightly silty clay		CL								
3	44	8	Brown silty clay				1.4						
			Change to brown fine sand		SM								
4	48	12	Same as above				4.3						
5	48	16	Same as above Staining noted Change to gray f-sand, hc	SM									
		20	End of Boring	SM		560							

Signature Robyn Seymour

Firm: Seymour Environmental Services, Inc.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Badger State (Dave Cruise) Seymour Environmental (Robyn Seymour)						Date Installed 10/25/2010			
Boring or Well Number MW-1		WI Unique Well Number (assigned by DNR) VU 856		Borehole Diameter 2-inch		Water Level		Surface Elevation	
SW ¼ of NE ¼ of Section 28 T 4 N R 13 E				Grid Location (if applicable)					
County Rock		County Code 54		Civil Town Milton					

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
							q	W	LL	PL	P200	
		Surf	Gravel									
1	18		Base coarse-sandy gravel		GW							
			Med. brown silty clay, stiff		CL	0						-, 2 2, 3
2	14	5										
			Med. brown f sand, sl gravel		SM	0						-, 5 7, 7
3	14	10										
			Lt brown vf sand, silt seams		SM	0.5						-, 2 3, 4
4	18	15										
			Same as above, dense			1.3						-, 6 9, 11
5	12	20										
			Brown f-c sand and gravel		SW	2.1						-, 21 22, 23
6	18	25										
			Same as above v.dense sand w gravel		SW	0						-, 23 42, 50
7	14	30										
			Light brown fine sand with slight Silt, trace clay		SM	0						-, 20 30, 47
8	14	40										
			Brown fine sand with trace of gravel dense			0						-, 10 16, 16
		45										
			Same as above			0.1						-, 6, 10, 20

Signature <i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.			
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Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number			
Boring Drilled by Badger State (Dave Cruise) Seymour Environmental (Robyn Seymour)						Date Installed 10/25/2010			
Boring or Well Number MW-1			WI Unique Well Number (assigned by DNR) VU 856			Borehole Diameter 2-inch		Water Level Surface Elevation	
____ ¼ of ____ ¼ of Section ____ T ____ N ____ R ____ W						Grid Location (if applicable)			
County Rock		County Code 54				Civil Town Milton			

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R I N C H	U S C S	R Q D	S t a b l e O v e r l a p M (vppm)	Soil Properties					B l o w C o u n t
								q	W	LL	PL	P200	
			Same as above										
9	18	50					0.9						-, 15 20, 21
10	14	55	Hit water at 53 Color change to gray, strong hc odor				1650						-, 10 13, 15
11	14	60											
			End										

Signature <i>Robyn Seymour</i>	Firm: Seymour Environmental Services, Inc.
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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: JUNCTION STATION
Local Grid Location of Well: ft. N. ☐ S. ☐ E. ☐ W. ☐
Well Name: NW-1
Facility License, Permit or Monitoring No.: Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Wis. Unique Well No.: V4856
DNR Well ID No.: _____
Facility ID: _____
St. Plane: ft. N. ☐ E. ☐ S/C/N ☐
Date Well Installed: 1012512010
m m d d y y v v v y
Well Installed By: Name (first, last) and FI: BALKER STATE DRILLING
Type of Well: Well Code 1
Section Location of Waste/Source: 1/4 of 1 1/4 of Sec. 1 T. 1 N, R. 1 E ☐ W ☐
Distance from Waste/Source: ft. 1
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: 22.45 ft. MSL ☒ Yes ☐ No
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): _____

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 0
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 3
Concrete ☒ 0
Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 3
Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 3
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 3
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 5
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0
Tremie pumped ☐ 0
Gravity ☒ 0
6. Bentonite seal: a. Bentonite granules ☐ 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 3
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size:
a. OH10 40-60
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size:
a. OH10 #5
b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2
Flush threaded PVC schedule 80 ☐ 2
Other ☐
10. Screen material: SCH 40 PVC
a. Screen type: Factory cut ☒ 1
Continuous slot ☐ 0
Other ☐
b. Manufacturer MONOFLEX
c. Slot size: 0.010
d. Slotted length: 15
11. Backfill material (below filter pack): None ☒ 1
Other ☐

E. Bentonite seal, top: 1 ft. MSL or 1 ft.
F. Fine sand, top: 48.5 ft. MSL or 48.5 ft.
G. Filter pack, top: 46 ft. MSL or 46 ft.
H. Screen joint, top: 48 ft. MSL or 48 ft.
I. Well bottom: 63 ft. MSL or 63 ft.
J. Filter pack, bottom: 63 ft. MSL or 63 ft.
K. Borehole, bottom: 63 ft. MSL or 63 ft.
L. Borehole, diameter: _____ in.
M. O.D. well casing: _____ in.
N. I.D. well casing: _____ in.

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

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 fill 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.

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number MW-2			
Boring Drilled by Badger State (Alex Plummer) Seymour Environmental (Robyn Seymour)						Date Installed 02/23/2011			
Boring or Well Number MW-2				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation ~52	
SW <u> </u> ¼ of NE <u> </u> ¼ of Section <u> 28 </u> T <u> 4 </u> N R <u> 13 </u> E						Grid Location (if applicable)			
County Rock		County Code 54		Civil Town Milton					

S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	W E L L	D I A M E T E R	U S C S	R Q D	S t a b l e O v e r l a p M (vppm)	Soil Properties					B l o w C o u n t
									q	W	LL	PL	P200	
		Surf	Asphalt											
		10	Blind drilled, logged and sampled cuttings Gray brown sandy silt with clay											
		20	Slight hc odor Light brown sandy silt					75 0						
		30	Change to light brown silty sand					75						
		40	Sand with gravel/cobbles					82						
		50	Change to light brown silt					12.5						
		60	Hit water 52-53 feet											
			End of boring 64 ft											

Signature <i>Robyn Seymour</i>	Firm: Seymour Environmental Services, Inc.
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Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

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

Facility/Project Name 8085 Citgo	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name NW-2
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	Lat. " Long. " or " "	Date Well Installed 02/23/2011 m m d d y y y y
Type of Well	St. Plane ft. N. ft. E. S/C/N	Well Installed By: Name (first, last) and Firm Alex Plummer BADGER STATE DRILLING Co.
Well Code 1	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W	
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation FLUSH ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation -2' ft. MSL	2. Protective cover pipe: a. Inside diameter: 9 in. b. Length: 1 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
C. Land surface elevation _____ ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom _____ ft. MSL or _____ ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	7. Fine sand material: Manufacturer, product name & mesh size a. OH10 40-60 b. Volume added _____ ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	8. Filter pack material: Manufacturer, product name & mesh size a. OH10 #5 b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
Describe _____	10. Screen material: SC4 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	b. Manufacturer MONOFLEX c. Slot size: 0.016 in. d. Slotted length: _____ ft.
E. Bentonite seal, top _____ ft. MSL or 1' ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 44' ft.	
G. Filter pack, top _____ ft. MSL or 45' ft.	
H. Screen joint, top _____ ft. MSL or 47' ft.	
I. Well bottom _____ ft. MSL or 62' ft.	
J. Filter pack, bottom _____ ft. MSL or 64' ft.	
K. Borehole, bottom _____ ft. MSL or 64' ft.	
L. Borehole, diameter 8 in.	
M. O.D. well casing 2.38 in.	
N. I.D. well casing 2.0 in.	

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

Signature **M. J. ...**

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.

Route to: Watershed/Wastewater ☐ Waste Management ☐

Remediation/Redevelopment ☐ Other ☐

Facility/Project Name <u>BGS CIT60</u>	County Name	Well Name <u>MLW-2</u>
Facility License, Permit or Monitoring Number	County Code	DNR Well ID Number

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

2. Well development method

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

3. Time spent developing well 75 min.

4. Depth of well (from top of well casing) 42.0 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 _____ 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)

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. 52.0 ft. 2024 ft.

Date b. 02/24/2011 02/24/2011
m m d d y y y y m m d d y y y y

Time c. 7:45 ☒ a.m. 9:00 ☒ a.m.
p.m. p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity Clear ☐ 10 Turbid ☒ 15
(Describe) MILKY BROWN ALMOST CLEAR
LITTLE CLOUDY

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: BADGER STATE DRILLING CO.

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: BSD

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

Facility/Project Name Bob's Citgo – 602 West Madison Avenue, Milton, WI				Seymour Project Number		License/Permit/Monitoring Number MW-3									
Boring Drilled by Badger State (Alex Plummer) Seymour Environmental (Robyn Seymour)						Date Installed 02/23/2011									
Boring or Well Number MW-3				WI Unique Well Number (assigned by DNR)		Borehole Diameter 2-inch		Water Level Surface Elevation ~54							
____ ¼ of ____ ¼ of Section ____ T ____ N R ____ W						Grid Location (if applicable)									
County Rock		County Code 54		Civil Town Milton											
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION		W E L L	D I A M E T E R	U N C L E S	R Q D	Stable O V M (vppm)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Soil Properties</div>				Blow Count	
										q	W	LL	PL	P200	
1	20	5	Concrete Dark gray silty clay Brown sandy clay Black peat				CL PT		25						2, 3 5, 5
2	20	10	Blue green silty clay				CL		25						6, 7 7, 7
3	14	15	Brown gray f-m silty sand, hc odor				SM		<2000						5, 6 6, 5
4		20	Dark gray f sand, slight silt				SW		1250						
5		25	Medium brown f sand, dense				SW		25						
			Hit water ~54												
			Blind drilled to 64												

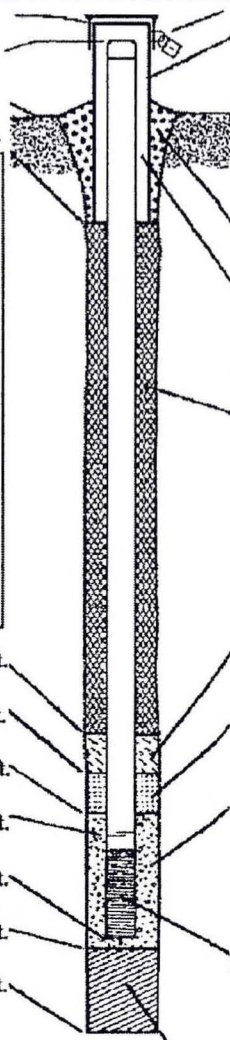
Signature *Robyn Seymour*

Firm: Seymour Environmental Services, Inc.

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

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

Facility/Project Name <u>BOB'S CITY</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>02/23/2011</u> m m d d y y y y
Type of Well Well Code <u>/</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Alex Plummer</u> <u>BADGER STATE DRILLING CO.</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

<p>A. Protective pipe, top elevation <u>FLUSH</u> ft. MSL</p> <p>B. Well casing, top elevation <u>2"</u> ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>1'</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>45'</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>40'</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>48'</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>63'</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>64'</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>64'</u> ft.</p> <p>L. Borehole, diameter <u>8"</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.0</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4</u> in. b. Length: <u>1</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>OHIO 40-60</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>OHIO #5</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>SC40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>MONOFLEX</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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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.

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

Facility/Project Name <u>BOBS CITGO</u>	County Name	Well Name <u>MW-3</u>
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 | <input type="checkbox"/> 41 |
| surged with bailer and pumped | <input checked="" type="checkbox"/> 61 |
| surged with block and bailed | <input type="checkbox"/> 42 |
| surged with block and pumped | <input type="checkbox"/> 62 |
| surged with block, bailed and pumped | <input type="checkbox"/> 70 |
| compressed air | <input type="checkbox"/> 20 |
| bailed only | <input type="checkbox"/> 10 |
| pumped only | <input type="checkbox"/> 51 |
| pumped slowly | <input type="checkbox"/> 50 |
| Other | <input type="checkbox"/> |

3. Time spent developing well 45 min.

4. Depth of well (from top of well casing) 62.5 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 _____ 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)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>54.5</u> ft.	<u>DRY</u> ft.
Date	b. <u>02/24/2011</u> m m d d y y y y	<u>02/24/2011</u> m m d d y y y y
Time	c. <u>9:15</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>MILKY BROWN</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) <u>ALMOST CLEAR</u> <u>LITTLE CLOUDY</u>

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: _____ Last Name: _____

Firm: BADGER STATE DRILLING CO.

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
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 Garwick

Firm: BSD

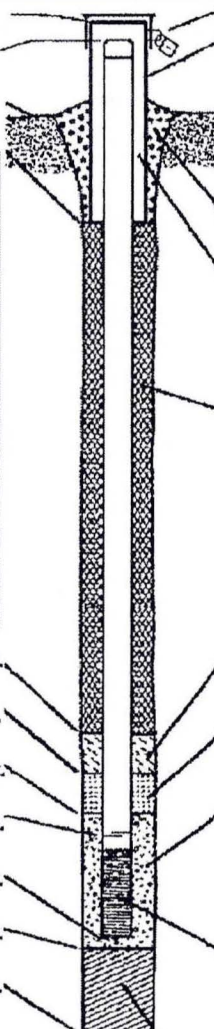
NOTE: See instructions for more information including a list of county codes and well type codes.

Flesh Mount

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

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

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

<p>A. Protective pipe, top elevation <u>Flush</u> ft. MSL</p> <p>B. Well casing, top elevation <u>2</u> ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required):</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>2</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>46</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>47</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>49</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>64</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>64</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>64</u> ft.</p> <p>L. Borehole, diameter <u>8</u> in.</p> <p>M. O.D. well casing <u>2.3</u> in.</p> <p>N. I.D. well casing <u>2</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>9</u> in. b. Length: <u>1</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/> 33 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>40-60 Ohio</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>1.0-2.0 Ohio</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>Seh 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Mexoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Mark D. Smith 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.

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

Facility/Project Name <u>Boss City</u>	County Name <u>Rock</u>	Well Name <u>MW-4</u>
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

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

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 64.0 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)

17. Additional comments on development:

11. Depth to Water
(from top of well casing)

Before Development	After Development
a. <u>56.00</u> ft.	<u>58.5</u> ft.

Date b. 09/08/2011 09/08/2011
m m d d y y y y m m d d y y y y

Time c. 6:30 a.m. 7:00 a.m.
☐ p.m. ☐ p.m.

12. Sediment in well bottom 0 inches 0 inches

13. Water clarity Clear ☐ 10 Turbid ☒ 15
(Describe) (Describe)

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Robert Last Name: McCumber
Firm: BST

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
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.

[illegible]

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

Facility/Project Name <u>Boss City</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-5</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location Lat. <u>44° 07' 20" N</u> Long. <u>89° 07' 20" W</u>	Wis. Unique Well No. <u>VY662</u> DNR Well ID No.
Facility ID	St. Plane <u>1/4</u> of <u>1/4</u> of Sec. <u>1</u> T. <u>1</u> N. R. <u>1</u> E. S/C/N	Date Well Installed <u>09/07/2011</u>
Type of Well Well Code <u>1</u>	Section Location of Waste/Source <u>1/4</u> of <u>1/4</u> of Sec. <u>1</u> T. <u>1</u> N. R. <u>1</u> E. S/C/N	Well Installed By: Name (first, last) and Firm <u>Boss McCumber</u>
Distance from Waste/Source <u>1</u> ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number <u>1350</u>

A. Protective pipe, top elevation <u>1126</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>1126</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>9</u> in. b. Length: <u>1</u> ft. c. Material: <u>Steel</u> <input type="checkbox"/> 0.4 Other <input type="checkbox"/>
C. Land surface elevation <u>1126</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe:
D. Surface seal, bottom <u>1126</u> ft. MSL or <u>1126</u> ft.	3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 30 <u>Concrete</u> <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: <u>Bentonite</u> <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. <u>1</u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>1</u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u>1</u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1</u> Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>OHIO #4000</u> b. Volume added <u>1</u> ft ³
Describe	8. Filter pack material: Manufacturer, product name & mesh size a. <u>OHIO #5</u> b. Volume added <u>1.7</u> ft ³
17. Source of water (attach analysis, if required):	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>1126</u> ft. MSL or <u>1126</u> ft.	10. Screen material: <u>Sch 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>1126</u> ft. MSL or <u>1126</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15</u> ft.
G. Filter pack, top <u>1126</u> ft. MSL or <u>1126</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>1126</u> ft. MSL or <u>1126</u> ft.	
I. Well bottom <u>1126</u> ft. MSL or <u>1126</u> ft.	
J. Filter pack, bottom <u>1126</u> ft. MSL or <u>1126</u> ft.	
K. Borehole, bottom <u>1126</u> ft. MSL or <u>1126</u> ft.	
L. Borehole, diameter <u>8</u> in.	
M. O.D. well casing <u>2</u> in.	
N. I.D. well casing <u>2</u> in.	

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

Signature Maddie D 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.

Route to: Watershed/Wastewater ☐

Waste Management ☐

Remediation/Redevelopment ☒

Other ☐

Facility/Project Name <u>BSS Celco</u>	County Name <u>Rock</u>	Well Name <u>MW-5</u>
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 | <input type="checkbox"/> 41 |
| surged with bailer and pumped | <input type="checkbox"/> 61 |
| surged with block and bailed | <input type="checkbox"/> 42 |
| surged with block and pumped | <input type="checkbox"/> 62 |
| surged with block, bailed and pumped | <input checked="" type="checkbox"/> 70 |
| compressed air | <input type="checkbox"/> 20 |
| bailed only | <input type="checkbox"/> 10 |
| pumped only | <input type="checkbox"/> 51 |
| pumped slowly | <input type="checkbox"/> 50 |
| Other | <input type="checkbox"/> |

3. Time spent developing well 30 min.

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

5. Inside diameter of well 20 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? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

Before Development	After Development
a. <u>58.5</u> ft.	<u>59</u> ft.

Date b. 09, 08, 2011 09, 08, 2011
m m d d y y y y m m d d y y y y

Time c. 7:30 a.m. 8:00 a.m.
p.m. p.m.

12. Sediment in well bottom 8 inches 0 inches

13. Water clarity Clear ☒ 10 Clear ☐ 20
Turbid ☒ 15 Turbid ☒ 25
(Describe) (Describe)

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by Name (first, last) and Firm

First Name: Robert Last Name: McCumber

Firm: BSD

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.

FIELD BORING LOG

Sheet 1 Of 1

STOUGHTON, WISCONSIN
FOR Rob's Lites

LOCATION Milton WZ

FI FV

Job No. 5656

Boring No. MW-6

GROUND WATER

While drilling

Time after drilling

Start 9-7-2011

Before casing removal

Depth to water

Unit D-120

After casing removal

Depth to cave-in

Chief *K.D. KRM*

[illegible]

Route to: Watershed/Wastewater ☐
Remediation/Redevelopment ☒

Waste Management ☐
Other ☐

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

Facility/Project Name <u>Bos's Citco</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>MW-6</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____	Wis. Unique Well No. <u>V4663</u> DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>8-10-2011</u>
Type of Well Well Code _____	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Bos's McComber</u> <u>BSD</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation <u>45.4</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>3</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>20</u> in. b. Length: <u>10</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>4.5</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 3.0 Concrete <input checked="" type="checkbox"/> 0.1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input type="checkbox"/> 9.9	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>OHIO #4000</u> b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>OHIO #4</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>2</u> ft.	10. Screen material: <u>5cm 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>4.5</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.075</u> in. d. Slotted length: <u>15</u> ft.
G. Filter pack, top _____ ft. MSL or <u>4.7</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>49.5</u> ft.	
I. Well bottom _____ ft. MSL or <u>64.5</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>6.5</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>6.5</u> ft.	
L. Borehole, diameter <u>80</u> in.	
M. O.D. well casing <u>20</u> in.	
N. I.D. well casing <u>20</u> in.	

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.

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

Facility/Project Name <u>Boss C/LCO</u>	County Name <u>Rock</u>	Well Name <u>MW-6</u>
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

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

3. Time spent developing well 30 min.

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

5. Inside diameter of well 20 in.

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

7. Volume of water removed from well 10.6 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)

17. Additional comments on development:

11. Depth to Water (from top of well casing)
Before Development After Development
a. 59 ft. 59 ft.

Date b. 09,08,2011 07,08,2011
m m d d y y y y m m d d y y y y

Time c. 7: 15 a.m. 7: 30 a.m.
☐ p.m. ☐ p.m.

12. Sediment in well bottom 4 inches 0 inches

13. Water clarity Clear ☐ 10 Turbid ☒ 15
(Describe) (Describe)

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: RM Last Name: McLumber

Firm: B.S.D

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.

APPENDIX B

LABORATORY REPORTS

Flush Mount

Facility/Project Name Bob's Citeo		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-4	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		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		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E		Well Installed By: Name (first, last) and Firm Bob McCumber	
Well Code 1		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Distance from Waste/Source ft.		Ent. Stds. Apply <input type="checkbox"/>		BSD	

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: **1.0** 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: Bentonite ☐ 30
Other ☒ **Sand**

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. _____ Ft³ 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 _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **1.0-2.0 Ohio**
b. Volume added _____ ft³

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 **Monohel**
c. Slot size: **0.010** in.
d. Slotted length: **1.5** 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 **Malcolm D** 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. Admin. 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.

Route to: Watershed/Wastewater ☐

Waste Management ☐

Remediation/Redevelopment ☒

Other ☐

Facility/Project Name <u>Bob's Cito</u>	County Name <u>Rock</u>	Well Name <u>MW-4</u>
Facility License, Permit or Monitoring Number	County Code <u>---</u>	Wis. Unique Well Number <u>---</u>
		DNR Well ID Number <u>---</u>

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

2. Well development method

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

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 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)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

Before Development	After Development
a. <u>56.00</u> ft.	<u>58.5</u> ft.

Date b. 09/08/2011 09/08/2011
m m d d y y y y m m d d y y y y

Time c. 6:30 a.m. 7:00 a.m.
p.m. p.m.

12. Sediment in well bottom 0 inches 0 inches

13. Water clarity Clear ☐ 10 Turbid ☒ 15
(Describe) (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 Last Name: McLumber
Firm: BSN

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 Gacarik

Print Name: Mark Gacarik

Firm: Badger State Drilling, Inc.

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

FIELD BORING LOG

Sheet 1 Of 2

STOUGHTON, WISCONSIN

FOR Bob's Citco

LOCATION Milton WI

ELEV. -

Job No. Q 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

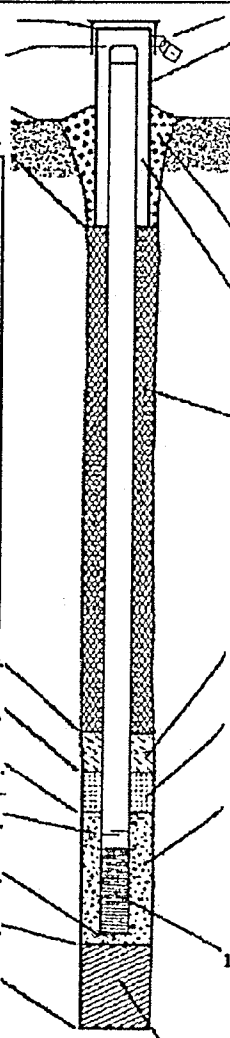
Start 4-6-71

Unit D-120

Chief KO. B. M.

[illegible]

Facility/Project Name <u>Boss Cuto</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name <u>MW-5</u>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <u>11662</u> DNR Well ID No.	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>09/07/2011</u>	
Type of Well		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm <u>Boss McCumbur</u>	
Well Code <u>1</u>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient		Gov. Lot Number	
Distance from Waste/Source _____ ft.		d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known			
Enf. Stds. Apply <input type="checkbox"/>					

<p>A. Protective pipe, top elevation <u>Flush</u> ft. MSL</p> <p>B. Well casing, top elevation <u>2</u> ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or <u>4.5</u> ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0.0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>4.5</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>4.7</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>59.5</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>64.5</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>6.5</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>6.5</u> ft.</p> <p>L. Borehole, diameter <u>8</u> in.</p> <p>M. O.D. well casing <u>2</u> in.</p> <p>N. I.D. well casing <u>2</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>9</u> in. b. Length: <u>6</u> ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>OHIO #4000</u> b. Volume added <u>7</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>OHIO #5</u> b. Volume added <u>4.2</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>Sch 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>1.5</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Mark D. D

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.

Route to: Watershed/Wastewater ☐

Waste Management ☐

Remediation/Rodevelopment ☒

Other ☐

Facility/Project Name <u>BBS Ciba</u>	County Name <u>Rock</u>	Well Name <u>MW-5</u>	
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

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

3. Time spent developing well

30 min.

4. Depth of well (from top of well casing)

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

17. Additional comments on development:

11. Depth to Water (from top of well casing)

Before Development	After Development
a. <u>58.5</u> ft.	<u>59</u> ft.

Date

b. 09, 08, 2011 09, 08, 2011
m m d d y y y y m m d d y y y y

Time

c. 7:30 a.m. 8:00 a.m.
p.m. p.m.

12. Sediment in well bottom

8 inches 0 inches

13. Water clarity

Clear <input checked="" type="checkbox"/> 10	Clear <input type="checkbox"/> 20
Turbid <input type="checkbox"/> 15	Turbid <input checked="" type="checkbox"/> 25
(Describe)	(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: Robert Last Name: McCumber

Firm:

BSD

Name and Address of Facility Contact/Owner/Responsible Party

First

Last

Name:

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.

FIELD BORING LOG

Sheet 1 Of 1

STOUGHTON, WISCONSIN
FOR Rob's Lico

Job No. 5656

LOCATION Milton WZ

ELEV.

Boring No. MW-6

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 *KID RUM*

[illegible]

Facility/Project Name <u>BBS Citco</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-6</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. "	Wis. Unique Well No. <u>V4663</u> DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <u>09/07/2011</u>
Type of Well	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm <u>BBS McCumber</u> <u>BSD</u>
Well Code <u>1</u>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Distance from Waste/Source ft.	Gov. Lot Number	

A. Protective pipe, top elevation <u>Flush</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>-3"</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>20</u> in. b. Length: <u>60</u> in. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
C. Land surface elevation <u>45</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe:
D. Surface seal, bottom <u>45</u> ft. MSL or	3. Surface seal: Bentonite <input type="checkbox"/> 3.0 Concrete <input checked="" type="checkbox"/> 0.1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3.0 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. <u>0</u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. <u>0</u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 3.1 d. <u>0</u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 5.0 e. <u>0</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input type="checkbox"/> 4.1 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3.2 c. Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input type="checkbox"/> 9.9	7. Fine sand material: Manufacturer, product name & mesh size a. <u>OHIO #4000</u> b. Volume added <u>1</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size a. <u>OHIO #2</u> b. Volume added <u>1</u> ft ³
Describe	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):	10. Screen material: <u>Sen 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
E. Bentonite seal, top <u>2</u> ft. MSL or	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.04</u> in. d. Slotted length: <u>15</u> ft.
F. Fine sand, top <u>45</u> ft. MSL or	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/>
G. Filter pack, top <u>47</u> ft. MSL or	
H. Screen joint, top <u>49.5</u> ft. MSL or	
I. Well bottom <u>64.5</u> ft. MSL or	
J. Filter pack, bottom <u>65</u> ft. MSL or	
K. Borehole, bottom <u>65</u> ft. MSL or	
L. Borehole, diameter <u>80</u> in.	
M. O.D. well casing <u>20</u> in.	
N. I.D. well casing <u>20</u> in.	

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 Form 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.

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

Facility/Project Name <u>Bob's Oilco</u>	County Name <u>Rock</u>	Well Name <u>MW-6</u>
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

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

3. Time spent developing well 30 min.

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

5. Inside diameter of well 20 in.

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

7. Volume of water removed from well 10.6 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)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

Before Development	After Development
a. <u>59</u> ft.	<u>59</u> ft.

Date b. 09,08,2011 07,08,2011
m m d d y y y y m m d d y y y y

Time c. 7: ☒ a.m. 7: 3 ☐ p.m.

12. Sediment in well bottom 4 inches 0 inches

13. Water clarity Clear ☐ 10 Turbid ☒ 15
(Describe) (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.S.D.

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 Gorwick

Print Name: Mark Gorwick

Firm: Badger State Drilling, Inc.

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

Job No. 5086

ELEV. -

Boring No. *NW-7*

Start 8-20-2013

Depth to water

Unit 8-120

After casing removal

Depth to cave-in

Chief K.D. - J. U. / M. G.

Sample No.	Moisture	Blows on Sampler		Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Casing/Probe _____ Weight _____ Drop _____	Unconfined Strength	Boulders	Blows on		Drilling Method
		0/6	6/12							Casing Size	Probe Size	
						10" CONCRETE						
						BLIND DRILL 4 1/4 HSA						
						↓						
					5	BR. F-M SILTY SAND		5				
						↓						
					10	68'-73' GR. SILTY CLAY		10				
					15			15				
					20			20				
					25			25				
					30			30				
					35			35				
						E.O.B. 73'						
						SCREEN 71'-56'						
						RISER 54'-FLUSH						
					40	② FILTER 53'-54'		40				
						① FINE 54'-52'						
						② CHIPS 52'-1'						
						① CONCRETE						
						① FLUSH MOUNT						
					45			45				
					50			50				

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

Facility/Project Name BOBSCITGO MOUNTAIN, WI		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name NW-7	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 08/20/2013 m m d d y y v v	
Type of Well Well Code 1		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm BADGER STATE DRILLING CO.	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input type="checkbox"/>					

A. Protective pipe, top elevation FLUSH ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
B. Well casing, top elevation 3" ft. MSL		2. Protective cover pipe: a. Inside diameter: 9 in. b. Length: 1 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____	
C. Land surface elevation _____ ft. MSL		3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>	
D. Surface seal, bottom _____ ft. MSL or _____ ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. 15.4 Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name & mesh size a. RD LINT #15 b. Volume added 1.6 ft ³	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name & mesh size a. OW10 #5 b. Volume added 5.74 ft ³	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>	
Describe _____		10. Screen material: SC# 46 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
17. Source of water (attach analysis, if required): _____		b. Manufacturer MONOFLEX c. Slot size: 0.010 in. d. Slotted length: 15 ft.	
E. Bentonite seal, top _____ ft. MSL or 1' ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
F. Fine sand, top _____ ft. MSL or 52' ft.			
G. Filter pack, top _____ ft. MSL or 54' ft.			
H. Screen joint, top _____ ft. MSL or 56' ft.			
I. Well bottom _____ ft. MSL or 71' ft.			
J. Filter pack, bottom _____ ft. MSL or 73' ft.			
K. Borehole, bottom _____ ft. MSL or 73' ft.			
L. Borehole, diameter 8.0 in.			
M. O.D. well casing 2.38 in.			
N. I.D. well casing 2.0 in.			

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

Signature **Mark Bernier** 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.

FIELD BORING LOG

Sheet 1 Of 2

STOUGHTON, WISCONSIN

FOR Bobs Cintero

LOCATION

Milton, mit

ELEV.

Job No. 10036

Boring No. Y-14-1

GROUND WATER

While drilling

Time after drilling

Before casing removal

Depth to water

After casing removal

Depth to cave-in

Start

Unit _____

Chief

[illegible]

FOR

LOCATION

ELEV.

Job No. 6086

Boring No. MW-9

Start 21-13

Unit 11.2c

Chief

GROUND WATER

While drilling

Before casing removal

After casing removal

Time after drilling

Depth to water

Depth to cave-in

[illegible]

Seymour *60086*

Facility/Project Name <i>Boys Club</i>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <i>MW-3</i>
Facility License, Permit or Monitoring No. <i>MT1001, WI</i>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <i>8/21/13</i>
Type of Well	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <i>R. Plummer Badger</i>
Well Code _____ /	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Distance from Waste/Source _____ ft.	Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. <i>16.47</i> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <i>Red F. 1.5</i> b. Volume added <i>.6</i> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size a. <i>OKA #5</i> b. Volume added <i>5.3</i> ft ³
Describe _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):	10. Screen material: <i>Sch 40 Pipe</i> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <i>1.5</i> ft.	b. Manufacturer <i>Macrotex</i> c. Slot size: <i>0.10</i> in. d. Slotted length: <i>1.5</i> ft.
F. Fine sand, top _____ ft. MSL or <i>56</i> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or <i>57</i> ft.	
H. Screen joint, top _____ ft. MSL or <i>59</i> ft.	
I. Well bottom _____ ft. MSL or <i>74.0</i> ft.	
J. Filter pack, bottom _____ ft. MSL or <i>74.5</i> ft.	
K. Borehole, bottom _____ ft. MSL or <i>74.5</i> ft.	
L. Borehole, diameter <i>8</i> in.	
M. O.D. well casing <i>2.38</i> in.	
N. I.D. well casing <i>2.0</i> in.	

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

Signature *Mark Kain* 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.

LOCATION

FIELD BORING LOG

Sheet _____ Of _____

Job No. 6086

Boring No. MW-9

Start 622-13

Unit D1420

Chief KIP-1

GROUND WATER

While drilling

Before casing removal

After casing removal

Time after drilling

Depth to water

Depth to cave-in

[illegible]

Seymour

6086

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name <u>C-1790</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>MW-9</u>
Facility License, Permit or Monitoring No. <u>MT-100,001</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>8-22-13</u>
Type of Well	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>R. Hammer</u> <u>Badger</u>
Well Code _____ /	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Distance from Waste/Source _____ ft.	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 1.5 ft.
- F. Fine sand, top _____ ft. MSL or 51.0 ft.
- G. Filter pack, top _____ ft. MSL or 52.0 ft.
- H. Screen joint, top _____ ft. MSL or 54.5 ft.
- I. Well bottom _____ ft. MSL or 69.5 ft.
- J. Filter pack, bottom _____ ft. MSL or 70 ft.
- K. Borehole, bottom _____ ft. MSL or 70 ft.
- L. Borehole, diameter 8 in.
- M. O.D. well casing 2.38 in.
- N. I.D. well casing 2.0 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 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. 14.96 Ft³ 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. O'Keefe Flint #15
b. Volume added .3 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. OHIO #5
b. Volume added 5.44 ft³
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 ☒ T1
Continuous slot ☐ 01
Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.10 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

Firm

Mark HammerBadger 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.

STOUGHTON, WISCONSIN

FOR C. EgoSeymourJob No. 6086LOCATION Milton, WI

ELEV. _____

Boring No. MW-10**GROUND
WATER**While drilling 701

Time after drilling _____

Start 8:23-13

Before casing removal _____

Depth to water _____

Unit _____

After casing removal _____

Depth to cave-in _____

Chief KID

Sample No.	Moisture	Blows on Sampler		Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Casing/Probe Weight Drop	Unconfined Strength	Boulders	Blows on		Drilling Method
		0/6	6/12							Casing Size	Probe Size	
						4" T.S 2' Fill						
						Blind w 4 1/2						
						Splint tower						
						Br F med coarse						
						Sand						
						23' Br silty sandy						
						clay						
						55' Br F. Dense						
						Sand w some med						
						gravel (FMI)						
						60' Br F. med/coarse						
						Sand						
						E.O.B 73' set well						
						701 15' screen						
						6 Filter 53' Flush						
						1 Fine 52' Ltc						
						16 (chip) 1.5						

Seymour Coase

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 <u>Citgo</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>MW-10</u>
Facility License, Permit or Monitoring No. <u>Milton, WI</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	Lat. <input type="checkbox"/> Long. <input type="checkbox"/>	Date Well Installed <u>9-23-13</u>
Type of Well	Section Location of Waste/Source 1/4 of <input type="checkbox"/> 1/4 of Sec. <input type="checkbox"/> T. <input type="checkbox"/> N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By Name (first, last) and Firm <u>Li Kuert Badger</u>
Well Code <u>/</u>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Distance from Waste/Source <input type="checkbox"/> ft.	Gov. Lot Number	

A. Protective pipe, top elevation Flush 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 15 ft.
F. Fine sand, top _____ ft. MSL or 52 ft.
G. Filter pack, top _____ ft. MSL or 53 ft.
H. Screen joint, top _____ ft. MSL or 55 ft.
I. Well bottom _____ ft. MSL or 70 ft.
J. Filter pack, bottom _____ ft. MSL or 73 ft.
K. Borehole, bottom _____ ft. MSL or 73 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 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. 15.26 ft³ 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. Red Flint #15
b. Volume added 3 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. 040 #5
b. Volume added 6.04 ft³
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: 0.075 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

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.

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <u>Bob's CITGO</u>	County Name <u>Rock</u>	Well Name <u>mw-7</u>	
Facility License, Permit, or Monitoring Number _____	County Code <u>54</u>	Wis. Unique Well Number _____	DNR Well 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 600 min.

4. Depth of well (from top of well casing) 70.20 ft.

5. Inside diameter of well _____ in.

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

7. Volume of water removed from well 55.0 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)

16. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>60.95</u> ft.	<u>60.10</u> ft.
Date	b. <u>08/30/13</u> m m d d y y	<u>08/30/13</u> m m d d y y
Time	c. <u>10:30</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:30</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 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

Well developed by: Person's Name and Firm

Name: Robyn Seymour

Firm: Seymour Env

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

Signature: Robyn Seymour

Print Initials: RAS

Firm: SEYMOUR ENVIRONMENTAL SERVICES, Inc.

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <u>Bob's CITGO</u>	County Name <u>Rock</u>	Well Name <u>mw-8</u>	
Facility License, Permit, or Monitoring Number _____	County Code <u>54</u>	Wis. Unique Well Number _____	DNR Well 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 60 min.

4. Depth of well (from top of well casing) 73.80 ft.

5. Inside diameter of well 2.00 in.

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

7. Volume of water removed from well 55.0 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)

16. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>64.49</u> ft.	<u>63.90</u> ft.
Date	b. <u>08/30/13</u> m m d d y y	<u>08/30/13</u> m m d d y y
Time	c. <u>09:05</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>10:05</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.5</u> inches	<u>0.5</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 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

Well developed by: Person's Name and Firm

Name: Robyn Seymour / MKS

Firm: Seymour Env

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

Signature: Robyn Seymour

Print Initials: RAS

Firm: SEYMOUR ENVIRONMENTAL SERVICES, Inc.

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <u>Bob's CITGO</u>	County Name <u>Rock</u>	Well Name <u>mw-9</u>	
Facility License, Permit, or Monitoring Number _____	County Code <u>54</u>	Wis. Unique Well Number _____	DNR Well Number _____

1. Can this well be purged dry? ☐ Yes ☒ No
2. Well development method
- | | |
|--------------------------------------|--|
| surged with bailer and bailed | <input checked="" type="checkbox"/> 41 |
| surged with bailer and pumped | <input checked="" type="checkbox"/> 61 |
| surged with block and bailed | <input type="checkbox"/> 42 |
| surged with block and pumped | <input type="checkbox"/> 62 |
| surged with block, bailed and pumped | <input type="checkbox"/> 70 |
| compressed air | <input type="checkbox"/> 20 |
| bailed only | <input type="checkbox"/> 10 |
| pumped only | <input type="checkbox"/> 51 |
| pumped slowly | <input type="checkbox"/> 50 |
| Other _____ | <input type="checkbox"/> |
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 67.6 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 55.0 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. <u>59.64</u> ft.	<u>58.1</u> ft.
Date	b. <u>08/30/13</u> m m d d y y	<u>08/30/13</u> m m d d y y
Time	c. <u>08:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>09:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.0</u> inches	<u>00</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 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. Additional comments on development:

Too deep for pump, had to bail

Well developed by: Person's Name and Firm

Name: Robyn Seymour

Firm: Seymour Env

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

Signature: Robyn Seymour

Print Initials: RAS

Firm: SEYMOUR ENVIRONMENTAL SERVICES, Inc.

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <u>Bob's CITGO</u>	County Name <u>Rock</u>	Well Name <u>MW-10</u>
Facility License, Permit, or Monitoring Number _____	County Code <u>54</u>	Wis. Unique Well Number _____
		DNR Well 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 60 min.

4. Depth of well (from top of well casing) 69.4 ft.

5. Inside diameter of well 2.00 in.

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

7. Volume of water removed from well 55.0 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. <u>61.30</u> ft.	<u>60.80</u> ft.
Date	b. <u> </u> / <u> </u> / <u> </u>	<u> </u> / <u> </u> / <u> </u>
Time	c. <u>11:45</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>12:45</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>2.0</u> inches	<u>0.5</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)

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

14. Total suspended solids _____ mg/l

15. COD _____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Robyn Seymour

Firm: Seymour Env

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

Signature: Robyn Seymour

Print Initials: RAS

Firm: SEYMOUR ENVIRONMENTAL SERVICES, Inc.

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

Page 1 of 1

Facility/Project Name Bob's Citgo			License/Permit/Monitoring Number SCS#: 25221172		Boring Number B21	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services			Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe			Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter 2.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat ° ' " Long ° ' "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E			County Rock		County Code 54	
Facility ID			Civil Town/City/ or Village Milton			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	49		1	ASPHALT				1.0						
			2	POORLY GRADED SAND w/ GRAVEL, light yellowish brown, dense (fill)	SP					D				
S2			3	SILTY SAND, dark brown, dense, trace gravel	SM			22.4		M				
			4											
S3	41		5	SILT, dark brown, stiff	ML			10.6		M				Petroleum odor.
			6											
S4			7	LEAN TO FAT CLAY, grey, soft	CL/CH			133		M				Petroleum odor.
			8											
S5	34		9	CLAYEY SAND, brownish grey, dense	SC			372		M				Petroleum odor.
			10											
S6			11	POORLY GRADED SAND, medium, brown, dense	SP			1167		M				Petroleum odor.
			12											
			13	EOB @ 15' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.										Petroleum odor. Lab Sample 12.5-15' bgs for PVOC+N.
			14											
			15											

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

Signature <i>Jacob Krause</i>	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Bob's Citgo		License/Permit/Monitoring Number SCS#: 25221172		Boring Number B22	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services		Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
Borehole Diameter 2.0 in.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E		Long ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Rock		County Code 54	
				Civil Town/City/ or Village Milton	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	23		2	ASPHALT POORLY GRADED SAND w/ SILT and GRAVEL, light yellowish brown, dense (fill) LEAN CLAY, dark brown, medium stiff	SP-SM			0		D				
S2			4					0		M				
S3			6	color changing gradually to greyish brown				0		M				
S4			8					0		M				
S5			10	color change to brown, trace sand				0		M				Lab Sample 8-10' bgs for PVOC+N.
S6	42		12	CLAYEY SAND, brown, dense	SC			24.5		M				Petroleum odor.
S7			14	POORLY GRADED SAND w/ SILT, dark brown to dark grey, dense	SP-SM			60.8		M				Petroleum odor.
S8	39		16											
			18	CLAYEY SAND, dark brown, medium dense	SC			173		W				Petroleum odor.
			20	POORLY GRADED SAND w/ SILT, dark grey, dense EOB @ 20' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.	SP-SM									Lab Sample 19-10' bgs for PVOC+N.

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

Signature  Firm **SCS Engineers** Tel:
Fax:

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

Page 1 of 1

Facility/Project Name Bob's Citgo			License/Permit/Monitoring Number SCS#: 25221172		Boring Number B23	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services			Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet	Surface Elevation approx. 880 Feet		Borehole Diameter 2.0 in.
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat ° ' " Long ° ' "		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E						
Facility ID		County Rock	County Code 54	Civil Town/City/ or Village Milton		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	19		1	ASPHALT										
			2	POORLY GRADED SAND w/ GRAVEL, brown, dense (fill)	SP			0.1		M				
S2			3	SILTY SAND, dark brown, dense, trace clay, trace gravel	SM									
			4					0.8		M				
S3	41		5	LEAN CLAY, brown, stiff, trace fine sand										
			6					0		M				
S4			7											
			8		CL									
S5	36		9	becoming softer				0.5		M				
			10											
S6			11	POORLY GRADED SAND, brown with some black staining, dense										
			12		SP			0.4		M				Petroleum odor.
			13											
			14											
			15											
				EOB @ 15' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.				3.6		M				Petroleum odor. Lab Sample 14-14.5' bgs for PVOC+N.

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

Signature 	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Bob's Citgo		License/Permit/Monitoring Number SCS#: 25221172		Boring Number B24	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services		Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe					
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet	Surface Elevation approx. 880 Feet	Borehole Diameter 2.0 in.
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Local Grid Location		
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E			Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Rock	County Code 54	Civil Town/City/ or Village Milton	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	26		2	ASPHALT POORLY GRADED SAND w/ GRAVEL, very pale brown, dense (fill) SILT, dark brown to black, stiff, trace sand and clay	SP ML			0		D				
S2		4	POORLY GRADED SAND w/ SILT, brown, dense LEAN CLAY, brown, medium stiff, trace fine sand	SP-SM CL			1.3		M				Lab sample 3-4' bgs for PVOC+N	
S3	13		8		CL			0		M				Poor recovery due to gravel grain stuck liner
S4	34		12	SILTY SAND, dark brown, dense, trace clay	SM			0		M				
S5		14	POORLY GRADED SAND w/ SILT, fine, brown, dense change to light brown, medium dense				0		M					
S6	42		16		SP-SM			0		M				
S7		18					0		M				Lab Sample 19-20' bgs for PVOC+N	
			20	EOB @ 20' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.										

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

Signature <i>Jacob Krause</i>	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Bob's Citgo		License/Permit/Monitoring Number SCS#: 25221172		Boring Number B25	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services		Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
Borehole Diameter 2.0 in.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane N, E S/C/N		Lat ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E		Long ° ' "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Rock		County Code 54	
				Civil Town/City/ or Village Milton	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	21		1	ASPHALT										
			2	SILTY GRAVEL w/ SAND, brown, dense (fill)	GM			0		M				
S2			3	POORLY GRADED SAND w/ SILT and GRAVEL, fine, brown, dense	SP-SM									
			4					43.1		M				Petroleum odor beginning at 3.5' bgs. Lab sample 3-4' bgs for PVOC+N.
S3	23		5	LEAN CLAY, dark brown, medium stiff, trace sand										
			6					89.3		M				Petroleum odor.
S4			7											
			8											
S5			9		CL			51.8		M				Petroleum odor.
			10											
S6	34		11											
			12					177		M				Petroleum odor. Lab Sample 10-12' bgs for PVOC+N.
			13											
			14											
			15	POORLY GRADED SAND, fine to medium, dark brown, dense	SP			9.8		M				Lab sample 14-15' bgs for PVOC+N.
				EOB @ 15' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.										

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

Signature <i>Jacob Krause</i>	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Bob's Citgo		SCS#: 25221172		License/Permit/Monitoring Number		Boring Number B4R	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services				Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name		Drilling Method Geoprobe	
				Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
						Borehole Diameter 2.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N				Lat ° ' "		Local Grid Location	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E				Long ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Rock		County Code 54		Civil Town/City/ or Village Milton	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	43		1	CONCRETE				0						
			2	POORLY GRADED SAND w/ SILT and GRAVEL, very pale brown, dense	SP-SM									
S2			3	SANDY SILT, dark grey to dark brown, stiff	ML			8.8						
			4	SILTY SAND, dark grey to dark brown, dense	SM									
S3	44		5	SILT, dark grey to dark brown, stiff				13.2						
			6		ML									
S4			7	LEAN CLAY, grey, stiff				19.7						Petroleum odor beginning at 8' bgs.
			8											
S5			9					405						
			10		CL									
S6	55		11					363						Lab sample 14.5-15' bgs for PVOC +N.
			12											
			13											
			14											
			15	POORLY GRADED SAND, fine, brown, trace gravel	SP									
				EOB @ 15' bgs. Borehole abandoned with bentonite chips and re-topped with concrete.										

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

Signature 	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 2

Facility/Project Name Bob's Citgo		License/Permit/Monitoring Number		Boring Number BMW2	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Kapugi On-Site Environmental Services		Date Drilling Started 10/18/2021		Date Drilling Completed 10/18/2021	
Drilling Method Geoprobe		Final Static Water Level Feet		Surface Elevation approx. 880 Feet	
WI Unique Well No.	DNR Well ID No.	Common Well Name		Borehole Diameter 2.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Lat <input type="text"/> ° <input type="text"/> ' <input type="text"/> "		Local Grid Location	
State Plane N, E S / C / N		Long <input type="text"/> ° <input type="text"/> ' <input type="text"/> "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NE 1/4 of Section 28, T 4 N, R 13 E					
Facility ID		County Rock	County Code 54	Civil Town/City/ or Village Milton	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	33		2	SILTY GRAVEL, grey, loose (fill) POORLY GRADED SAND w/ SILT, fine, very pale brown, medium dense (fill - suspected remedial excavation backfill)	GM			0		D				
S2			4					0		M				
S3			6		SP-SM			0		M				
S4	29		8					0		M				
S5			10	SILTY SAND, brown, dense, trace gravel	SM			0		M				
S6	22		12	LEAN CLAY, brown, medium stiff, trace sand	CL			0		M				
S7			14	SILTY SAND, dark brown, dense, trace clay				0		M				
S8	32		16		SM			445		M				Petroleum odor.
S9			18	POORLY GRADED SAND, fine to medium, brown with some black staining, dense	SP			362		M/W				Petroleum odor.
			20	SILTY SAND, fine, very pale brown, dense	SM									
			22	POORLY GRADED SAND w/ SILT, fine, very pale brown				10.7		M				
	36		24		SP-SM									

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

Signature 	Firm SCS Engineers	Jacob Krause	Tel: Fax:
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number		Use only as an attachment to Form 4400-122.										Page 2 of 2		
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S10					SP-SM			22.2		M				
S11	35		26	POORLY GRADED SAND w/ SILT and GRAVEL, very pale brown, dense				0		M				
S12			28					0		D				
S13			30					0		D				
S14	39		32					0		D				
S15			34	very dense	SP-SM			0		D				
S16	40		36					0		D				
S17			38					0		D				
S18	56		40					0		M				
S19			42	LEAN TO FAT CLAY, pale brown, medium stiff, trace fine sand	CL/CH			0		W/M				
S20	59		44	POORLY GRADED SAND, medium, brown SILT, pale brown, medium stiff, trace fine sand, trace clay	SP ML			0		W/M				
			46	LEAN TO FAT CLAY, brown, medium stiff, trace sand	CL/CH			0.3		W/M				
			48	SILTY SAND, dark grey, dense	SM			661		W/M				
			50	SILT w/ SAND, greyish brown, stiff, trace clay	ML									
				EOB @ 50' bgs. Borehole abandoned with bentonite chips and re-topped with nearby gravel.										Strong petroleum odor.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

B21

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment

☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information	
County	WI Unique Well # of Removed Well	Hicap #		Facility Name	
Rock				Bob's Citgo (Former)	
Latitude / Longitude (see instructions)	Format Code	Method Code		Facility ID (FID or PWS)	
N <input type="checkbox"/> DD	<input type="checkbox"/> GPS008	<input type="checkbox"/> SCR002		154074250	
W <input type="checkbox"/> DDM	<input type="checkbox"/> OTH001			License/Permit/Monitoring #	

1/4 1/4 SW 1/4 NE	Section	Township	Range	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
or Gov't Lot #	28	04 N	13	

Well Street Address	Well ZIP Code
602 W. Madison Ave	53563

Well City, Village or Town	Well ZIP Code
Milton	53563

Subdivision Name	Lot #	City of Present Owner	State	ZIP Code
		Milton	WI	53563

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary - Investigative only	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	10/18/2021	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.	Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Construction Type:	Was casing cut off below surface?
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): Direct Push (Geoprobe)	Did sealing material rise to surface?
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	Did material settle after 24 hours?
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
	If yes, was hole retopped?
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	If bentonite chips were used, were they hydrated with water from a known safe source?
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Formation Type:	Required Method of Placing Sealing Material
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
Total Well Depth From Ground Surface (ft.)	<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):
Boring 15'	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.25"	
Was well annular space grouted?	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

5. Material Used to Fill Well / Drillhole		Sealing Materials	
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite chips	0.5	0.4 ft ³	Dry
Concrete	Surface 0.5		

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
SCS Engineers		10/18/2021		
Street or Route	Telephone Number	Comments		
2830 Dairy Drive	(608) 224-2830			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718	Jul Kane	10/18/2021

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rock		
Latitude / Longitude (see instructions)	Format Code	Method Code
N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
		<input type="checkbox"/> OTH001

1/4 SW 1/4 NE	Section	Township	Range	1/4 E 1/4 W
or Gov't Lot #	28	04 N	13	

Well Street Address	Well ZIP Code
602 W. Madison Ave	53563
Well City, Village or Town	
Milton	
Subdivision Name	Lot #

Reason for Removal from Service WI Unique Well # of Replacement Well

Temporary - Investigative only

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	10/10/2021
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type:
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
<input checked="" type="checkbox"/> Other (specify): Direct Push (Geoprobe)

Formation Type:
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

Boring 15' 33k 20'

Lower Drillhole Diameter (in.) Casing Depth (ft.)

2.25"

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

3/8" Concrete
Bentonite Chips

2. Facility / Owner Information

Facility Name

Bob's Citgo (Former)

Facility ID (FID or PWS)

154074250

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Robert Richardson

Mailing Address of Present Owner

507 Campus St., Apt. 7

City of Present Owner

Milton

State

WI

ZIP Code

53563

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Required Method of Placing Sealing Material

<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain):

Sealing Materials

<input type="checkbox"/> Neat Cement Grout	<input checked="" type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

6. Comments

B22

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
SCS Engineers		01/10/2021		
Street or Route	Telephone Number	Comments		
2830 Dairy Drive	(608) 224-2830			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53718	John Kane	10/10/2021

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Route to DNR Bureau:

☐ Verification Only of Fill and Seal

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment

☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information			
County		WI Unique Well # of Removed Well		Hicap #		Facility Name	
Rock						Bob's Citgo (Former)	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS)	
N <input type="checkbox"/> DD <input type="checkbox"/> GPS008		W <input type="checkbox"/> DDM <input type="checkbox"/> SCR002		<input type="checkbox"/> OTH001		154074250	
1/4 3/4 SW 1/4 NE		Section 20		Township 04 N		Range 13 E	
or Gov't Lot #						License/Permit/Monitoring #	
Well Street Address				Original Well Owner			
602 W. Madison Ave				Robert Richardson			
Well City, Village or Town				Mailing Address of Present Owner			
Milton				507 Campus St., Apt. 7			
Subdivision Name				City of Present Owner		State ZIP Code	
				Milton		WI 53563	

Reason for Removal from Service		WI Unique Well # of Replacement Well	
Temporary - Investigative only			
3. Filled & Sealed Well / Drillhole / Borehole Information			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy)	
<input type="checkbox"/> Water Well		10/18/2021	
<input checked="" type="checkbox"/> Borehole / Drillhole		If a Well Construction Report is available, please attach.	
Construction Type:			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug			
<input checked="" type="checkbox"/> Other (specify): Direct Push (Geoprobe)			
Formation Type:			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.)		Casing Diameter (in.)	
Boring 15'			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)	
2.25"			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Liner(s) perforated?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain):	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input checked="" type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	
5. Material Used to Fill Well / Drillhole			
Concrete		From (ft.) To (ft.)	
3/8" Bentonite Chips		Surface 0.5	
		0.5 15	
		0.4 ft ³	
		dry	

6. Comments

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7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
SCS Engineers			10/18/2021		
Street or Route		Telephone Number		Comments	
2830 Dairy Drive		(608) 224-2830			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
Madison	WI	53718	John Z...	10/18/2021	

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☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rock		
Latitude / Longitude (see instructions)	Format Code	Method Code
N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
		<input type="checkbox"/> OTH001
1/4 SW 1/4 NE	Section	Township
or Gov't Lot #	28	04 N
Well Street Address	Range	13 E
602 W. Madison Ave	Well ZIP Code	53563
Well City, Village or Town	Subdivision Name	Lot #
Milton		
Reason for Removal from Service	WI Unique Well # of Replacement Well	
Investigative only		

2. Facility / Owner Information

Facility Name		
Bob's Citgo (Former)		
Facility ID (FID or PWS)		
154074250		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Robert Richardson		
Mailing Address of Present Owner		
507 Campus St., Apt. 7		
City of Present Owner	State	ZIP Code
Milton	WI	53563

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	10/18/2021
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input checked="" type="checkbox"/> Other (specify):	Direct Push (Geoprobe)
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.25	
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Required Method of Placing Sealing Material

<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain):

Sealing Materials

<input type="checkbox"/> Neat Cement Grout	<input checked="" type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	0.5		
0.5	20	0.6 ft ³	dry

6. Comments

B24

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			DNR Use Only	
SCS Engineers	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
2830 Dairy Dr.		10/18/2021		
City	State	ZIP Code	Signature of Person Doing Work	
Madison	WI	53718	Date Signed	
			10/18/2021	

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Route to DNR Bureau:

☐ Verification Only of Fill and Seal

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment

☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information			
County		WI Unique Well # of Removed Well		Hicap #		Facility Name	
Rock						Bob's Citgo (Former)	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS)	
		<input type="checkbox"/> DD <input type="checkbox"/> DDM		<input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		154074250	
License/Permit/Monitoring #							
Original Well Owner							
Present Well Owner							
Robert Richardson							
Mailing Address of Present Owner							
507 Campus St., Apt. 7							
City of Present Owner		State		ZIP Code			
Milton		WI		53563			

Reason for Removal from Service		WI Unique Well # of Replacement Well	
Temporary - Investigative Only			
3. Filled & Sealed Well / Drillhole / Borehole Information			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy)	
<input type="checkbox"/> Water Well		10/18/2021	
<input checked="" type="checkbox"/> Borehole / Drillhole		If a Well Construction Report is available, please attach.	
Construction Type:			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug			
<input checked="" type="checkbox"/> Other (specify): Direct Push (Geoprobe)			
Formation Type:			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.)		Casing Diameter (in.)	
15'			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)	
2.25			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Liner(s) perforated?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain):	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input checked="" type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	
5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	0-5		
0.5	15	0.4 ft ³	dry

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
SCS Engineers			10/18/2021		
Street or Route		Telephone Number		Comments	
2830 Dairy Drive		(608) 224-2830			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
Madison	WI	53718		10/18/2021	

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Verification Only of Fill and Seal ☐ **Route to DNR Bureau:** ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information			
County	WI Unique Well # of Removed Well	Hicap #		Facility Name			
Rock				Bob's Citgo (Former)			
Latitude / Longitude (see instructions)	Format Code	Method Code		Facility ID (FID or PWS)			
N <input type="checkbox"/> DD <input type="checkbox"/> GPS008 <input type="checkbox"/>	W <input type="checkbox"/> DDM <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001 <input type="checkbox"/>			154074250			
1/4 SW 1/4 NE	Section 28	Township 04 N	Range 13 E	License/Permit/Monitoring #			
or Gov't Lot #				Original Well Owner			
Well Street Address				Present Well Owner			
602 W. Madison Ave				Robert Richardson			
Well City, Village or Town				Mailing Address of Present Owner			
Milton				507 Campus St., Apt. 7			
Subdivision Name				City of Present Owner	State	ZIP Code	
				Milton	WI	53563	


Reason for Removal from Service: Temporary - Investigative only WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)			Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well	10/18/2021			Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.			Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push (Geoprobe)</u>				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.)				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
50'				If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)				Required Method of Placing Sealing Material			
2.28"				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
If yes, to what depth (feet)?				Sealing Materials			
Depth to Water (feet)				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	50	1.5 ft ³	dry

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By	
SCS Engineers		10/18/2021			
Street or Route	Telephone Number	Comments			
2830 Dairy Drive	(608) 224-2830				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
Madison	WI	53718	<i>[Signature]</i>	10/18/2021	



Appendix B

Soil Analytical Report

October 26, 2021

Betty Socha
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25221172 BOB'S CITGO
Pace Project No.: 40235468

Dear Betty Socha:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Pace Analytical Services Green Bay

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40235468001	B21 (12.5-15)	Solid	10/18/21 10:25	10/20/21 07:40
40235468002	B4R (14.5-15)	Solid	10/18/21 10:55	10/20/21 07:40
40235468003	B23 (3-4)	Solid	10/18/21 11:45	10/20/21 07:40
40235468004	B23 (14-14.5)	Solid	10/18/21 11:55	10/20/21 07:40
40235468005	B24 (3-4)	Solid	10/18/21 12:35	10/20/21 07:40
40235468006	B24 (19-20)	Solid	10/18/21 12:40	10/20/21 07:40
40235468007	B25 (3-4)	Solid	10/18/21 15:20	10/20/21 07:40
40235468008	B25 (10-12)	Solid	10/18/21 15:25	10/20/21 07:40
40235468009	B25 (14-15)	Solid	10/18/21 15:30	10/20/21 07:40
40235468010	B22 (8-10)	Solid	10/18/21 16:10	10/20/21 07:40
40235468011	B22 (19-20)	Solid	10/18/21 16:15	10/20/21 07:40
40235468012	TRIP BLANK	Solid	10/18/21 00:00	10/20/21 07:40

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SAMPLE ANALYTE COUNT

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40235468001	B21 (12.5-15)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468002	B4R (14.5-15)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468003	B23 (3-4)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468004	B23 (14-14.5)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468005	B24 (3-4)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468006	B24 (19-20)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468007	B25 (3-4)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468008	B25 (10-12)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468009	B25 (14-15)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468010	B22 (8-10)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468011	B22 (19-20)	WI MOD GRO	ALD	9	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40235468012	TRIP BLANK	WI MOD GRO	ALD	9	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 25221172 BOB'S CITGO
Pace Project No.: 40235468

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40235468001	B21 (12.5-15)					
WI MOD GRO	Benzene	128J	ug/kg	134	10/22/21 00:06	
WI MOD GRO	Ethylbenzene	6010	ug/kg	134	10/22/21 00:06	
WI MOD GRO	Naphthalene	4180	ug/kg	134	10/22/21 00:06	
WI MOD GRO	Toluene	168	ug/kg	134	10/22/21 00:06	
WI MOD GRO	1,2,4-Trimethylbenzene	20700	ug/kg	134	10/22/21 00:06	
WI MOD GRO	1,3,5-Trimethylbenzene	6760	ug/kg	134	10/22/21 00:06	
WI MOD GRO	Xylene (Total)	16200	ug/kg	401	10/22/21 00:06	
ASTM D2974-87	Percent Moisture	6.5	%	0.10	10/20/21 11:54	
40235468002	B4R (14.5-15)					
WI MOD GRO	Benzene	193	ug/kg	57.0	10/21/21 11:38	
WI MOD GRO	Ethylbenzene	619	ug/kg	57.0	10/21/21 11:38	
WI MOD GRO	Naphthalene	384	ug/kg	57.0	10/21/21 11:38	
WI MOD GRO	1,2,4-Trimethylbenzene	1120	ug/kg	57.0	10/21/21 11:38	
WI MOD GRO	1,3,5-Trimethylbenzene	340	ug/kg	57.0	10/21/21 11:38	
WI MOD GRO	Xylene (Total)	1860	ug/kg	171	10/21/21 11:38	
ASTM D2974-87	Percent Moisture	12.3	%	0.10	10/20/21 11:54	
40235468003	B23 (3-4)					
WI MOD GRO	Benzene	59.5J	ug/kg	65.3	10/21/21 23:14	
ASTM D2974-87	Percent Moisture	16.8	%	0.10	10/20/21 11:54	
40235468004	B23 (14-14.5)					
ASTM D2974-87	Percent Moisture	10.3	%	0.10	10/20/21 11:54	
40235468005	B24 (3-4)					
ASTM D2974-87	Percent Moisture	10.8	%	0.10	10/20/21 11:54	
40235468006	B24 (19-20)					
ASTM D2974-87	Percent Moisture	4.6	%	0.10	10/20/21 11:54	
40235468007	B25 (3-4)					
WI MOD GRO	Ethylbenzene	1050	ug/kg	568	10/21/21 23:40	
WI MOD GRO	Naphthalene	5540	ug/kg	568	10/21/21 23:40	
WI MOD GRO	Toluene	568J	ug/kg	568	10/21/21 23:40	
WI MOD GRO	1,2,4-Trimethylbenzene	5300	ug/kg	568	10/21/21 23:40	
WI MOD GRO	1,3,5-Trimethylbenzene	2860	ug/kg	568	10/21/21 23:40	
WI MOD GRO	Xylene (Total)	3620	ug/kg	1710	10/21/21 23:40	
ASTM D2974-87	Percent Moisture	5.4	%	0.10	10/20/21 11:54	
40235468008	B25 (10-12)					
WI MOD GRO	Ethylbenzene	154	ug/kg	62.0	10/21/21 14:13	
WI MOD GRO	Naphthalene	665	ug/kg	62.0	10/21/21 14:13	
WI MOD GRO	1,2,4-Trimethylbenzene	400	ug/kg	62.0	10/21/21 14:13	
WI MOD GRO	1,3,5-Trimethylbenzene	244	ug/kg	62.0	10/21/21 14:13	
WI MOD GRO	Xylene (Total)	403	ug/kg	186	10/21/21 14:13	
ASTM D2974-87	Percent Moisture	19.4	%	0.10	10/20/21 11:54	
40235468009	B25 (14-15)					
WI MOD GRO	Naphthalene	33.4J	ug/kg	54.8	10/21/21 13:47	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40235468009	B25 (14-15)					
WI MOD GRO	1,2,4-Trimethylbenzene	94.8	ug/kg	54.8	10/21/21 13:47	
ASTM D2974-87	Percent Moisture	8.7	%	0.10	10/20/21 11:54	
40235468010	B22 (8-10)					
ASTM D2974-87	Percent Moisture	21.3	%	0.10	10/20/21 11:54	
40235468011	B22 (19-20)					
WI MOD GRO	Benzene	907	ug/kg	487	10/21/21 15:04	
WI MOD GRO	Ethylbenzene	34100	ug/kg	487	10/21/21 15:04	
WI MOD GRO	Methyl-tert-butyl ether	1350	ug/kg	487	10/21/21 15:04	
WI MOD GRO	Naphthalene	12000	ug/kg	487	10/21/21 15:04	
WI MOD GRO	Toluene	32000	ug/kg	487	10/21/21 15:04	
WI MOD GRO	1,2,4-Trimethylbenzene	78200	ug/kg	487	10/21/21 15:04	
WI MOD GRO	1,3,5-Trimethylbenzene	27000	ug/kg	487	10/21/21 15:04	
WI MOD GRO	Xylene (Total)	138000	ug/kg	1460	10/21/21 15:04	
ASTM D2974-87	Percent Moisture	17.8	%	0.10	10/20/21 11:54	

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B21 (12.5-15) **Lab ID: 40235468001** Collected: 10/18/21 10:25 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	128J	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	71-43-2	
Ethylbenzene	6010	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	100-41-4	
Methyl-tert-butyl ether	<66.8	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	1634-04-4	
Naphthalene	4180	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	91-20-3	
Toluene	168	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	108-88-3	
1,2,4-Trimethylbenzene	20700	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	95-63-6	
1,3,5-Trimethylbenzene	6760	ug/kg	134	66.8	2.5	10/21/21 08:30	10/22/21 00:06	108-67-8	
Xylene (Total)	16200	ug/kg	401	201	2.5	10/21/21 08:30	10/22/21 00:06	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	117	%	80-120		2.5	10/21/21 08:30	10/22/21 00:06	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	6.5	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B4R (14.5-15) **Lab ID: 40235468002** Collected: 10/18/21 10:55 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	193	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	71-43-2	
Ethylbenzene	619	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	100-41-4	
Methyl-tert-butyl ether	<28.5	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	1634-04-4	
Naphthalene	384	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	91-20-3	
Toluene	<28.5	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	108-88-3	
1,2,4-Trimethylbenzene	1120	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	95-63-6	
1,3,5-Trimethylbenzene	340	ug/kg	57.0	28.5	1	10/21/21 08:30	10/21/21 11:38	108-67-8	
Xylene (Total)	1860	ug/kg	171	85.5	1	10/21/21 08:30	10/21/21 11:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	10/21/21 08:30	10/21/21 11:38	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	12.3	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B23 (3-4) **Lab ID: 40235468003** Collected: 10/18/21 11:45 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	59.5J	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	71-43-2	
Ethylbenzene	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	100-41-4	
Methyl-tert-butyl ether	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	1634-04-4	
Naphthalene	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	91-20-3	
Toluene	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	108-88-3	
1,2,4-Trimethylbenzene	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	95-63-6	
1,3,5-Trimethylbenzene	<32.6	ug/kg	65.3	32.6	1	10/21/21 08:30	10/21/21 23:14	108-67-8	
Xylene (Total)	<97.9	ug/kg	196	97.9	1	10/21/21 08:30	10/21/21 23:14	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/21 08:30	10/21/21 23:14	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	16.8	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B23 (14-14.5) **Lab ID: 40235468004** Collected: 10/18/21 11:55 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	71-43-2	
Ethylbenzene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	100-41-4	
Methyl-tert-butyl ether	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	1634-04-4	
Naphthalene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	91-20-3	
Toluene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	108-88-3	
1,2,4-Trimethylbenzene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	95-63-6	
1,3,5-Trimethylbenzene	<27.9	ug/kg	55.7	27.9	1	10/21/21 08:30	10/21/21 12:30	108-67-8	
Xylene (Total)	<83.6	ug/kg	167	83.6	1	10/21/21 08:30	10/21/21 12:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	10/21/21 08:30	10/21/21 12:30	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	10.3	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B24 (3-4) **Lab ID: 40235468005** Collected: 10/18/21 12:35 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	71-43-2	
Ethylbenzene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	100-41-4	
Methyl-tert-butyl ether	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	1634-04-4	
Naphthalene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	91-20-3	
Toluene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	108-88-3	
1,2,4-Trimethylbenzene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	95-63-6	
1,3,5-Trimethylbenzene	<30.2	ug/kg	60.3	30.2	1	10/21/21 08:30	10/21/21 12:55	108-67-8	
Xylene (Total)	<90.5	ug/kg	181	90.5	1	10/21/21 08:30	10/21/21 12:55	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/21 08:30	10/21/21 12:55	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	10.8	%	0.10	0.10	1		10/20/21 11:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B24 (19-20) **Lab ID: 40235468006** Collected: 10/18/21 12:40 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	71-43-2	
Ethylbenzene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	100-41-4	
Methyl-tert-butyl ether	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	1634-04-4	
Naphthalene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	91-20-3	
Toluene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	108-88-3	
1,2,4-Trimethylbenzene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	95-63-6	
1,3,5-Trimethylbenzene	<26.2	ug/kg	52.4	26.2	1	10/21/21 08:30	10/21/21 13:21	108-67-8	
Xylene (Total)	<78.6	ug/kg	157	78.6	1	10/21/21 08:30	10/21/21 13:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/21 08:30	10/21/21 13:21	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	4.6	%	0.10	0.10	1		10/20/21 11:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B25 (3-4) **Lab ID: 40235468007** Collected: 10/18/21 15:20 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<284	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	71-43-2	
Ethylbenzene	1050	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	100-41-4	
Methyl-tert-butyl ether	<284	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	1634-04-4	
Naphthalene	5540	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	91-20-3	
Toluene	568J	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	108-88-3	
1,2,4-Trimethylbenzene	5300	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	95-63-6	
1,3,5-Trimethylbenzene	2860	ug/kg	568	284	10	10/21/21 08:30	10/21/21 23:40	108-67-8	
Xylene (Total)	3620	ug/kg	1710	853	10	10/21/21 08:30	10/21/21 23:40	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		10	10/21/21 08:30	10/21/21 23:40	98-08-8	D3
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	5.4	%	0.10	0.10	1		10/20/21 11:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B25 (10-12) **Lab ID: 40235468008** Collected: 10/18/21 15:25 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<31.0	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	71-43-2	
Ethylbenzene	154	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	100-41-4	
Methyl-tert-butyl ether	<31.0	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	1634-04-4	
Naphthalene	665	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	91-20-3	
Toluene	<31.0	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	108-88-3	
1,2,4-Trimethylbenzene	400	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	95-63-6	
1,3,5-Trimethylbenzene	244	ug/kg	62.0	31.0	1	10/21/21 08:30	10/21/21 14:13	108-67-8	
Xylene (Total)	403	ug/kg	186	93.1	1	10/21/21 08:30	10/21/21 14:13	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		1	10/21/21 08:30	10/21/21 14:13	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	19.4	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B25 (14-15) **Lab ID: 40235468009** Collected: 10/18/21 15:30 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<27.4	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	71-43-2	
Ethylbenzene	<27.4	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	100-41-4	
Methyl-tert-butyl ether	<27.4	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	1634-04-4	
Naphthalene	33.4J	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	91-20-3	
Toluene	<27.4	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	108-88-3	
1,2,4-Trimethylbenzene	94.8	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	95-63-6	
1,3,5-Trimethylbenzene	<27.4	ug/kg	54.8	27.4	1	10/21/21 08:30	10/21/21 13:47	108-67-8	
Xylene (Total)	<82.2	ug/kg	164	82.2	1	10/21/21 08:30	10/21/21 13:47	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/21 08:30	10/21/21 13:47	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	8.7	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B22 (8-10) **Lab ID: 40235468010** Collected: 10/18/21 16:10 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	71-43-2	
Ethylbenzene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	100-41-4	
Methyl-tert-butyl ether	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	1634-04-4	
Naphthalene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	91-20-3	
Toluene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	108-88-3	
1,2,4-Trimethylbenzene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	95-63-6	
1,3,5-Trimethylbenzene	<31.8	ug/kg	63.6	31.8	1	10/21/21 08:30	10/21/21 18:05	108-67-8	
Xylene (Total)	<95.3	ug/kg	191	95.3	1	10/21/21 08:30	10/21/21 18:05	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	10/21/21 08:30	10/21/21 18:05	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	21.3	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: B22 (19-20) **Lab ID: 40235468011** Collected: 10/18/21 16:15 Received: 10/20/21 07:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	907	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	71-43-2	
Ethylbenzene	34100	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	100-41-4	
Methyl-tert-butyl ether	1350	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	1634-04-4	
Naphthalene	12000	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	91-20-3	
Toluene	32000	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	108-88-3	
1,2,4-Trimethylbenzene	78200	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	95-63-6	
1,3,5-Trimethylbenzene	27000	ug/kg	487	243	8	10/21/21 08:30	10/21/21 15:04	108-67-8	
Xylene (Total)	138000	ug/kg	1460	730	8	10/21/21 08:30	10/21/21 15:04	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		8	10/21/21 08:30	10/21/21 15:04	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	17.8	%	0.10	0.10	1		10/20/21 11:54		

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Sample: TRIP BLANK **Lab ID:** 40235468012 **Collected:** 10/18/21 00:00 **Received:** 10/20/21 07:40 **Matrix:** Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay									
Benzene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	71-43-2	
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	1634-04-4	
Naphthalene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	91-20-3	
Toluene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	108-88-3	
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	10/21/21 08:30	10/21/21 21:57	108-67-8	
Xylene (Total)	<75.0	ug/kg	150	75.0	1	10/21/21 08:30	10/21/21 21:57	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/21 08:30	10/21/21 21:57	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

QC Batch:	399218	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40235468001, 40235468002, 40235468003, 40235468004, 40235468005, 40235468006, 40235468007, 40235468008, 40235468009, 40235468010, 40235468011, 40235468012		

METHOD BLANK: 2304960

Matrix: Solid

Associated Lab Samples: 40235468001, 40235468002, 40235468003, 40235468004, 40235468005, 40235468006, 40235468007, 40235468008, 40235468009, 40235468010, 40235468011, 40235468012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	10/21/21 09:51	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	10/21/21 09:51	
Benzene	ug/kg	<25.0	50.0	10/21/21 09:51	
Ethylbenzene	ug/kg	<25.0	50.0	10/21/21 09:51	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	10/21/21 09:51	
Naphthalene	ug/kg	<25.0	50.0	10/21/21 09:51	
Toluene	ug/kg	<25.0	50.0	10/21/21 09:51	
Xylene (Total)	ug/kg	<75.0	150	10/21/21 09:51	
a,a,a-Trifluorotoluene (S)	%	102	80-120	10/21/21 09:51	

LABORATORY CONTROL SAMPLE & LCSD: 2304961

2304962

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1080	1130	108	113	80-120	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1070	1130	107	113	80-120	5	20	
Benzene	ug/kg	1000	1080	1100	108	110	80-120	2	20	
Ethylbenzene	ug/kg	1000	1100	1180	110	118	80-120	7	20	
Methyl-tert-butyl ether	ug/kg	1000	927	936	93	94	80-120	1	20	
Naphthalene	ug/kg	1000	959	995	96	99	80-120	4	20	
Toluene	ug/kg	1000	1060	1090	106	109	80-120	3	20	
Xylene (Total)	ug/kg	3000	3240	3450	108	115	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%				103	102	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.

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QUALITY CONTROL DATA

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

QC Batch: 399120

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40235468001, 40235468002, 40235468003, 40235468004, 40235468005, 40235468006, 40235468007, 40235468008, 40235468009, 40235468010, 40235468011

SAMPLE DUPLICATE: 2304518

Parameter	Units	40235468006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.8	4	10	

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.

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QUALIFIERS

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221172 BOB'S CITGO

Pace Project No.: 40235468

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40235468001	B21 (12.5-15)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468002	B4R (14.5-15)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468003	B23 (3-4)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468004	B23 (14-14.5)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468005	B24 (3-4)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468006	B24 (19-20)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468007	B25 (3-4)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468008	B25 (10-12)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468009	B25 (14-15)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468010	B22 (8-10)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468011	B22 (19-20)	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468012	TRIP BLANK	TPH GRO/PVOC WI ext.	399218	WI MOD GRO	399240
40235468001	B21 (12.5-15)	ASTM D2974-87	399120		
40235468002	B4R (14.5-15)	ASTM D2974-87	399120		
40235468003	B23 (3-4)	ASTM D2974-87	399120		
40235468004	B23 (14-14.5)	ASTM D2974-87	399120		
40235468005	B24 (3-4)	ASTM D2974-87	399120		
40235468006	B24 (19-20)	ASTM D2974-87	399120		
40235468007	B25 (3-4)	ASTM D2974-87	399120		
40235468008	B25 (10-12)	ASTM D2974-87	399120		
40235468009	B25 (14-15)	ASTM D2974-87	399120		
40235468010	B22 (8-10)	ASTM D2974-87	399120		
40235468011	B22 (19-20)	ASTM D2974-87	399120		

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Sample Preservation Receipt Form

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

Client Name: SCS

Project # 40235468

All containers needing preservation have been checked and noted below: ☐ Yes ☒ No ☐ N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Initial when
completed:

Date/
Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WGFU	WPFU	SP5T							
001																															2.5 / 5 / 10
002																															2.5 / 5 / 10
003																															2.5 / 5 / 10
004																															2.5 / 5 / 10
005																															2.5 / 5 / 10
006																															2.5 / 5 / 10
007																															2.5 / 5 / 10
008																															2.5 / 5 / 10
009																															2.5 / 5 / 10
010																															2.5 / 5 / 10
011																															2.5 / 5 / 10
012																															2.5 / 5 / 10
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014																															2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐ Yes ☒ No ☐ N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: SCS

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Walto
☐ Client ☐ Pace Other: _____

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 SR - 110 Type of Ice: Wet Blue Dry None

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☐ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

WO#: **40235468**



40235468

☒ Samples on ice, cooling process has begun

Person examining contents:

Date: 10/20/21 Initials: AB

Labeled By Initials: AB

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>mail invoice, pg#</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
- Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
- Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
- Includes date/time/ID/Analysis Matrix: <u>S</u>	
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>B20501B</u>	

Client Notification/ Resolution:


If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

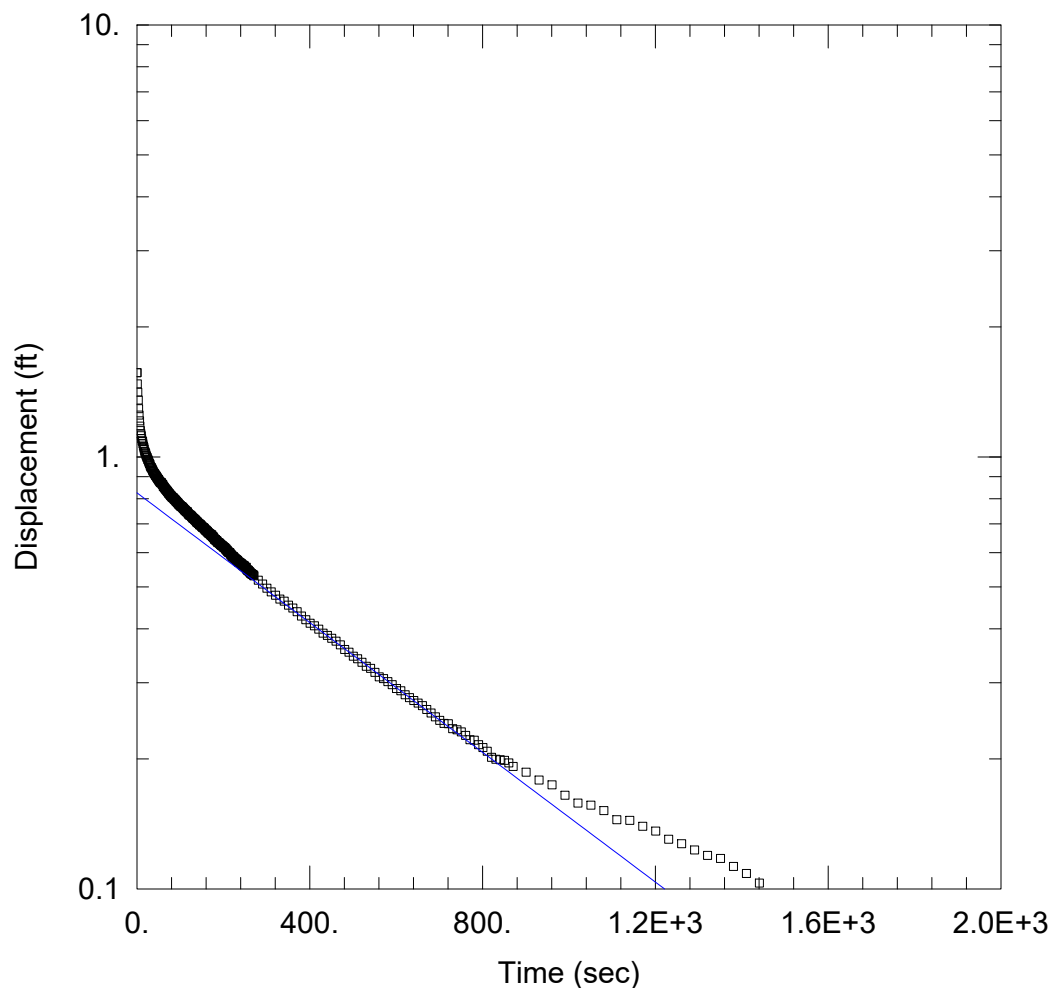
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

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Appendix C

Slug Test Results



WELL TEST ANALYSIS

Data Set: I:\25221172.00\Data and Calculations\Slug Test Data\BobsCitgoMW1.aqt

Date: 12/08/21

Time: 12:20:20

PROJECT INFORMATION

Company: SCS Engineers

Client: Former Bob's Citgo

Project: 25221172.00

Location: Milton, WI

Test Well: MW1

Test Date: 10/19/2021

AQUIFER DATA

Saturated Thickness: 100. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW1)

Initial Displacement: 1.567 ft

Static Water Column Height: 8.84 ft

Total Well Penetration Depth: 8.84 ft

Screen Length: 8.84 ft

Casing Radius: 0.08333 ft

Well Radius: 0.35 ft

Gravel Pack Porosity: 0.25

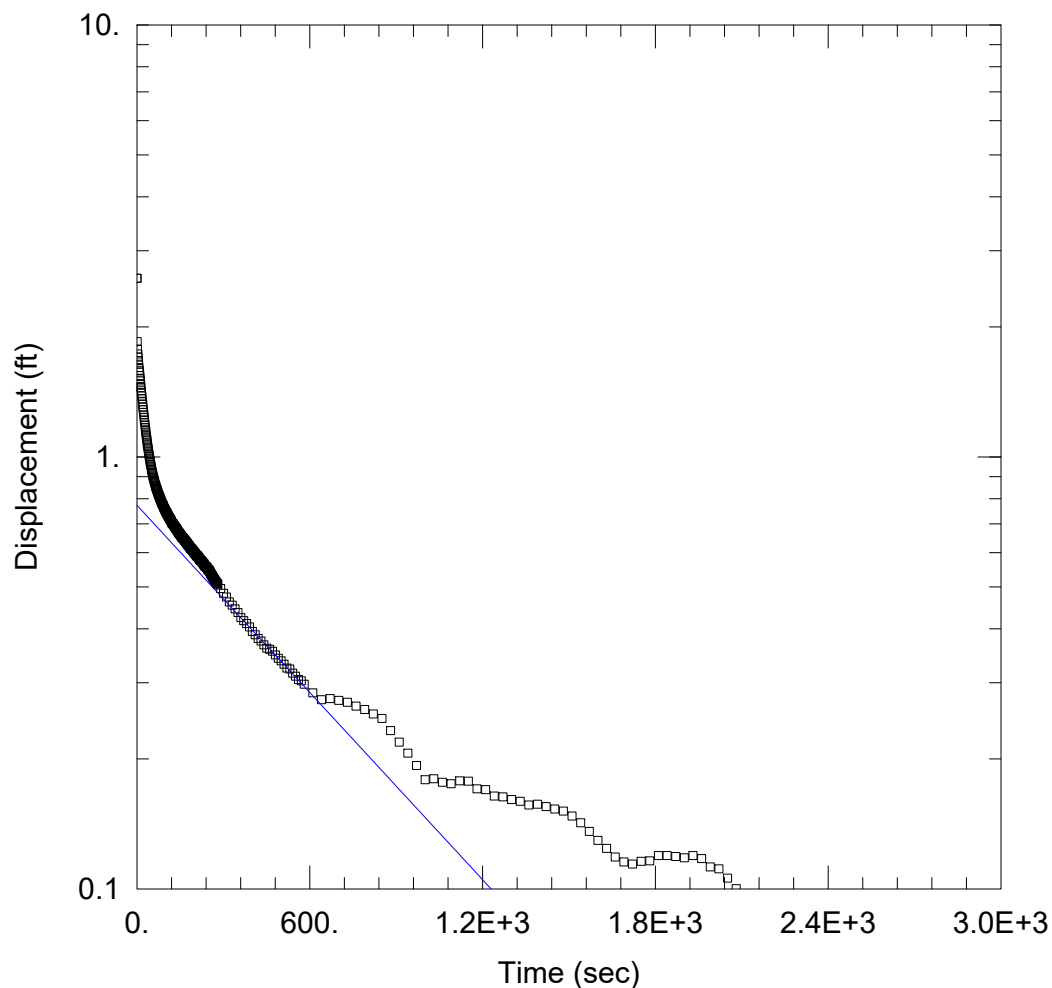
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.000208 cm/sec

y0 = 0.8255 ft



WELL TEST ANALYSIS

Data Set: I:\25221172.00\Data and Calculations\Slug Test Data\BobsCitgoMW2.aqt

Date: 12/08/21

Time: 12:36:45

PROJECT INFORMATION

Company: SCS Engineers

Client: Former Bob's Citgo

Project: 25221172.00

Location: Milton, WI

Test Well: MW2

Test Date: 10/19/2021

AQUIFER DATA

Saturated Thickness: 100. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW2)

Initial Displacement: 2.591 ft

Static Water Column Height: 11.69 ft

Total Well Penetration Depth: 11.69 ft

Screen Length: 11.69 ft

Casing Radius: 0.08333 ft

Well Radius: 0.35 ft

Gravel Pack Porosity: 0.25

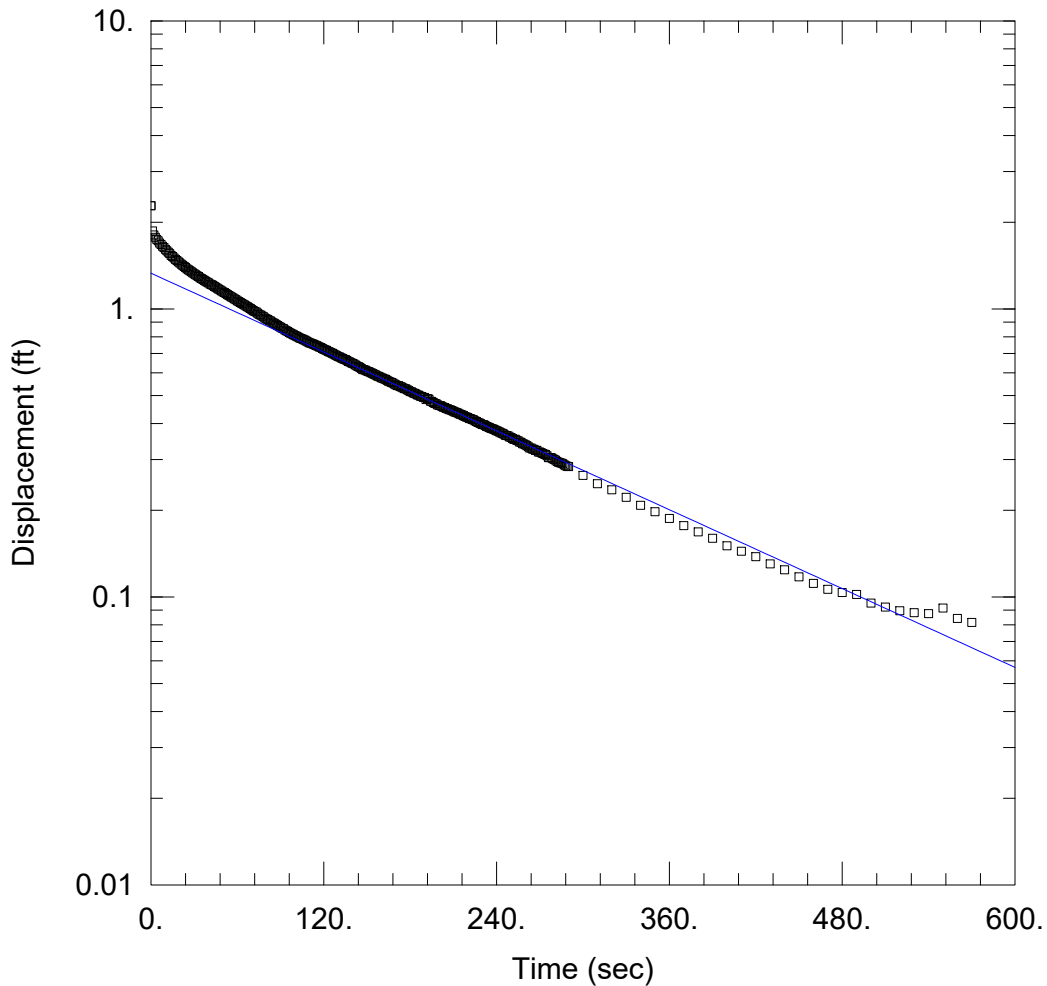
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0001694$ cm/sec

$y_0 = 0.7726$ ft



WELL TEST ANALYSIS

Data Set: I:\25221172.00\Data and Calculations\Slug Test Data\BobsCitgoMW3.aqt
 Date: 12/08/21 Time: 12:24:27

PROJECT INFORMATION

Company: SCS Engineers
 Client: Former Bob's Citgo
 Project: 25221172.00
 Location: Milton, WI
 Test Well: MW3
 Test Date: 10/19/2021

AQUIFER DATA

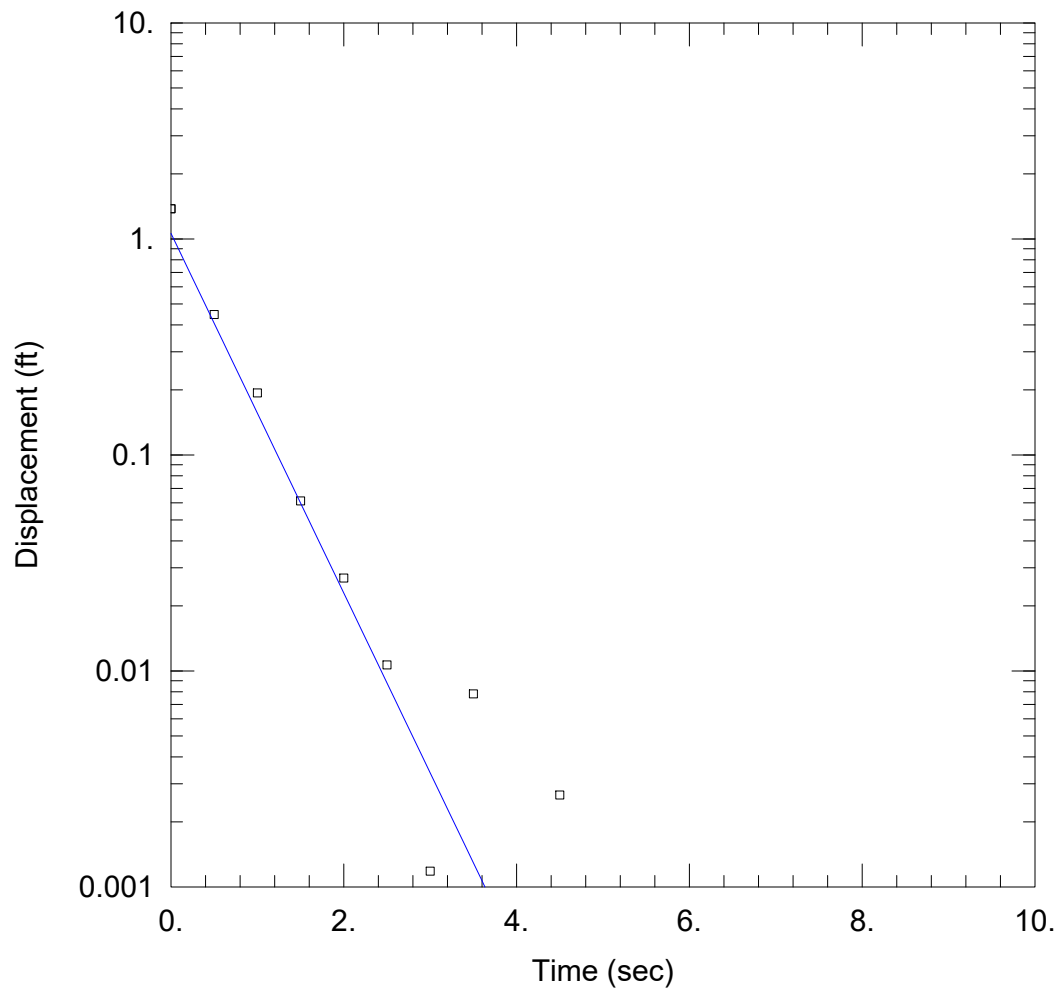
Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW3)

Initial Displacement: <u>2.282 ft</u>	Static Water Column Height: <u>10.26 ft</u>
Total Well Penetration Depth: <u>10.26 ft</u>	Screen Length: <u>10.26 ft</u>
Casing Radius: <u>0.08333 ft</u>	Well Radius: <u>0.35 ft</u>
	Gravel Pack Porosity: <u>0.25</u>

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Bouwer-Rice</u>
K = <u>0.0005791 cm/sec</u>	y0 = <u>1.33 ft</u>



WELL TEST ANALYSIS

Data Set: I:\25221172.00\Data and Calculations\Slug Test Data\BobsCitgoMW10.aqt
 Date: 12/08/21 Time: 12:14:04

PROJECT INFORMATION

Company: SCS Engineers
 Client: Former Bob's Citgo
 Project: 25221172.00
 Location: Milton, WI
 Test Well: MW10
 Test Date: 10/19/2021

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW10)

Initial Displacement: 1.378 ft Static Water Column Height: 11.21 ft
 Total Well Penetration Depth: 11.21 ft Screen Length: 11.21 ft
 Casing Radius: 0.08333 ft Well Radius: 0.35 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.2003 cm/sec y_0 = 1.061 ft