K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

STATUS REPORT, ADDITIONAL WORK PLAN and BUDGET REQUEST

November 14, 2017

Mr. David Volkert
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, WI 53188

VIA Email and US Mail KPRG Project 10009

Re: Status Report, Additional Work Plan and Budget Request
Former Bask Dry Cleaners – Waukesha, WI
BRRTS# 02-68-297669, FID# 268188800

Dear Mr. Volkert:

The most recent two rounds of groundwater sampling and a confirmation round of soil vapor sampling have been completed and the results are discussed below followed by a proposed additional scope of work and budget.

Groundwater Evaluation

As requested by the WDNR, three new monitoring wells were installed and sampled since the last data summary report. These wells are indentified as MW-17, MW-18 and MW-19 and are included on Figure 1. Copies of the boring logs and well construction summaries are provided in Attachment 1.

The most recent rounds of groundwater samples were a full round collected on May 22 through 25, 2017 and a limited round collected on September 29, 2017. The groundwater elevation measurements are included in Table 1 and the analytical data are summarized in Table 2. Figure 2 provides the most recent groundwater flow map (consistent with historic trends) and Figure 3 provides extent of impact contours based on that data for tetrachloroethene (PCE) and trichloroethene (TCE).

As noted on Figure 3, the TCE impact area has not changed and is limited to the similar area for the past several sampling events. The PCE impacts appear to be decreasing between down-gradient wells MW-15 and MW-19. Wells MW-17 and MW-18 have not had any detections of any CVOC in two rounds of sampling.

There no detections of cis-1,2 dichloroethene (DCE) above the enforcement standard (ES) and only one vinyl chloride detection in the most recent sampling was 8.5 ug/l at well MW-5 which is within the source area. An evaluation of Figure 3 indicates that the leading edge of the impacted groundwater plume has not yet been defined.

Soil Vapor Evaluation

Three additional soil vapor probes (SV-13, SV-14 and SV-15) were installed in March 2016 and are shown on Figure 1. Table 3 summarizes all soil vapor sampling data to date including the most recent round of sampling. Figure 4 provides an isoconcentration contour map of soil vapor impacts. A complete round of soil vapor samples was collected on March 31, 2016. Based on that sampling, the extent of soil vapor impacts appeared to be adequately defined, however, the WDNR requested to resample three vapor probe locations. The three vapor probes were resampled on June 15, 2017. The results confirm that the soil vapor impacts have been defined and no further soil vapor study is necessary.

ADDITIONAL WORK PLAN SCOPE OF WORK

For budget estimating purposes, the additional work discussed below is divided into the following tasks:

- Task 1 – Additional Requested Work Planning/Coordination
- Task 2 – Monitoring Well Installation
- Task 3 – Additional Groundwater Sampling
- Task 4 – Additional Reporting

Each task is discussed separately below.

Task 1 – Additional Requested Work Planning/Coordination

One new monitoring well, MW-20, is being proposed at location shown on Figure 3. The well will be located within a road right-of-way. The scope of this task includes the project management and planning that will be required for the successful completion of the additional work. This includes obtaining a new permit from the City of Waukesha for the installation of the proposed well within the City right-of-way.

Task 2 – Monitoring Well Installation

One proposed monitoring well (MW-20) will be drilled and installed with sonic drilling techniques. All installation, development and reporting procedures will be followed in accordance with previously approved work plans.

Task 3 – Additional Groundwater Sampling

One round of additional groundwater sampling from all wells that had recent CVOC detections will be performed followed by a confirmation round of the new well MW-20 and MW-19. The first round will include wells MW-5, -6, -7, -8, -10, -11, -12, -13, -14, -15, -16, -19, and -20. The first round will be approximately two weeks after completion of new well installation and development. The second round for confirmation will occur approximately three months later. Groundwater sample collection, handling and shipping procedures will be in accordance with previously approved work plans. The samples will be analyzed for CVOCs.

Task 5 – Additional Reporting

This task covers the additional effort in tabulating, evaluating and reporting the added data. This includes tables, figures and text discussions.

PATHWAY TO CLOSURE

KPRG understands that once the extent of groundwater impacts has been sufficiently defined, the site will be ready for conditional closure consideration. If the data indicate that additional work may be necessary, then discussions will be held with the WDNR to define the scope of any potential work.

COST ESTIMATE

Costs are summarized in Table 4 and detailed on the costing sheets in Attachment 2. The additional requested budget for the above defined scope of work is $24,079. The unit rates, used in this cost estimate, are consistent with previous KPRG rates.

Only those costs incurred will be billed. All billing will be performed on a monthly basis using the unit rates. No additional work will be performed until formal WDNR approval of the proposed budget is received. If there are any questions, please contact me at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

Richard R Gnat

Richard R. Gnat, P.G.
Principal

cc: Mr. Greg Butts, former Bask Dry Cleaners
Ms. Michelle Williams, Husch Blackwell, LLP.
Mr. Donald Gallo, Husch Blackwell, LLP

FIGURES

LEGEND

MW-12 — EXISTING MONITORING WELL, PIEZOMETER LOCATION

MW-20 — PROPOSED MONITORING WELL LOCATION

SV-3 — SOIL VAPOR PROBE LOCATION

ENVIRONMENTAL CONSULTATION & REMEDIATION

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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SITE MAP WITH MONITORING WELL AND SOIL VAPOR PROBE LOCATIONS

WESTBROOK SHOPPING CENTER
WAUKESHA, WISCONSIN

Scale: 1" = 120' | Date: November 10, 2017

KPRG Project No. 10009 | FIGURE 1

W:\projects\westbrook shopping center\ansi extent of gw.dwg

LEGEND

MW-12 MONITORING WELL, PIEZOMETER LOCATION

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

0 100'

APPROXIMATE SCALE

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GROUNDWATER CONTOURS–JUNE 2017

WESTBROOK SHOPPING CENTER
WAUKESHA, WISCONSIN

Scale: 1" = 100' | Date: November 6, 2017

KPRG Project No. 10009 | FIGURE 2

N

MW-11
3.5
ND

MW-12
24
1.1

MW-7
9.0
2.8

MW-8
0.53
ND

2129 SUNNYSIDE DR.
SAGER RESIDENCE

2008 CAPELLA CT.
JOHNSON RESIDENCE

KOHL'S
DEPARTMENT STORE
BUILDING

FORMER BASK
DRY CLEANERS

STORAGE ROOM

2.4
ND
MW-5

PZ-2

2004 CAPELLA CT.
HO RESIDENCE

PZ-3

SUNNYSIDE DR

CAPELLA COURT

2.0
ND
MW-14

RAMBLING ROSE RD

MW-20

MW-1
ND
ND

LAUNDROMAT

MW-4
ND
ND

PZ-1

10
5

17
99
MW-6

4.3
39
MW-13

MW-10
9.9
1.5

2011 CAPELLA CT.
BLANCHARD
RESIDENCE

MW-2
NS

PAYLESS SHOE
SOURCE

MW-3
ND
ND

2000 CAPELLA CT.
ZEITLER RESIDENCE

2151 RAMBLING ROSE RD.
STOCKINGER RESIDENCE

2150 RAMBLING ROSE RD.
ZATORSKI RESIDENCE

LAURA COURT

MW-19
48
2.0

COMMERCIAL

COMMERCIAL

2003 CAPELLA CT.
ANDREAS RESIDENCE

100
50
5

2007 CAPELLA CT.
FALVEY RESIDENCE

2157 RAMBLING ROSE RD.
LEX RESIDENCE

MW-15
130
3.4

2156 RAMBLING ROSE RD.
SCHNEIDER RESIDENCE

SPRINGDALE ROAD

MW-9
ND
ND

0.68
53
MW-16

SPRINGDALE ROAD

MW-18
ND
ND

EAST MORELAND BLVD.

HOLLIDALE DR

MW-17
ND
ND

0 120'
APPROXIMATE SCALE

LEGEND

MW-12 EXISTING MONITORING WELL, PIEZOMETER LOCATION

MW-20 PROPOSED MONITORING WELL LOCATION

5 TCE CONCENTRATION CONTOUR

5 PCE CONCENTRATION CONTOUR

5 PCE CONCENTRATION CONTOUR INFERRED

TCE ENFORCEMENT STANDARD = 5 µg/L

PCE ENFORCEMENT STANDARD = 5 µg/L

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EXTENT OF GROUNDWATER IMPACTS MAY 2017

WESTBROOK SHOPPING CENTER
WAUKESHA, WISCONSIN

Scale: 1" = 120' | Date: November 6, 2017

KPRG Project No. 10009 | FIGURE 3

W:\projects\westbrook shopping center\areal extent of gw.dwg

N

SUNNYSIDE DRIVE

RAMBLING ROSE

2129 SUNNYSIDE DR.
SAGER RESIDENCE

KOHL'S DEPARTMENT
STORE BUILDING

STORAGE ROOM

FORMER BASK
DRY CLEANERS

2008 CAPELLA CT.
JOHNSON RESIDENCE

2004 CAPELLA CT.
HO RESIDENCE

CAPELLA COURT

2011 CAPELLA CT.
BLANCHARD
RESIDENCE

2000 CAPELLA CT.
ZEITLER RESIDENCE

2003 CAPELLA CT.
ANDREAS RESIDENCE

2007 CAPELLA CT.
FALVEY RESIDENCE

2151 RAMBLING ROSE RD.
STOCKINGER RESIDENCE

2157 RAMBLING ROSE RD.
LEX RESIDENCE

2150 RAMBLING ROSE RD.
ZATORSKI RESIDENCE

2156 RAMBLING ROSE RD.
SCHNEIDER RESIDENCE

LAUNDROMAT

PAYLESS SHOE
SOURCE

COMMERCIAL

COMMERCIAL

ASPHALT

GRASS

CONCRETE WALK

SPRINGDALE ROAD

GRASS MEDIAN

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
PZ-1
PZ-2
PZ-3

SV-1
SV-1A
SV-1B
SV-2
SV-2A
SV-3
SV-4
SV-5
SV-6
SV-7
SV-8
SV-9
SV-10
SV-11
SV-12
SV-13
SV-14
SV-15

SV-6
ND
3.69

SV-8
1.73
1.36

SV-5
1.73
6.07

SV-1B
621
ND

SV-1
ND
ND

SV-7
1.17
10.9

SV-11
ND
2.46

SV-2A
1,790
81.5

SV-2
1,790
81.5

SV-4
8,870
478

SV-3
1,470
15.4

SV-10
27.0
2,200

SV-9
ND
5.79

SV-14
ND
5.98

SV-15	
3/31/16	6/15/17
47.9	111
ND	ND

SV-12	
3/31/16	6/15/17
5,370	34,700
77.1	458

SV-13	
3/31/16	6/15/17
407	552
ND	ND

5,000

1,000

LEGEND

MW-12 — MONITORING WELL, PIEZOMETER LOCATION

SV-1A — SOIL VAPOR PROBE LOCATION WITH SAMPLE RESULTS FROM 3/31/16

1,000 — PCE CONCENTRATION CONTOUR

100 — TCE CONCENTRATION CONTOUR

PCE VAPOR RISK SCREENING LEVEL = 4,200 µg/m³

TCE VAPOR RISK SCREENING LEVEL = 210 µg/m³

0 70'
APPROXIMATE SCALE

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EXTENT OF SOIL VAPOR IMPACTS

WESTBROOK SHOPPING CENTER
WAUKESHA, WISCONSIN

Scale: 1" = 70' | Date: November 10, 2017

KPRG Project No. 10009 | FIGURE 4

W:\projects\westbrook shopping center\areal extent of vapor.dwg

TABLES

Table 1. Water Level Elevation Table - Former Bask Dry Cleaners, Westbrook Shopping Center, Waukesha, WI

WELL	USGS Datum Elevations		10/22/2014		6/30/2015		6/1/2016		9/20/2016		5/22/2017		6/23/2017	
	Ground	Top of Casing	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	941.64	941.34	26.29	914.96	27.13	914.12	26.42	914.92	26.61	914.73	25.29	916.05	25.09	916.25
MW-2	942.41	942.15	27.04	915.03	27.91	914.16	27.14	915.01	27.30	914.85	26.16	915.99	26.00	916.15
MW-3	937.79	937.48	23.12	914.20	23.50	913.82	23.13	914.35	23.35	914.13	22.96	914.52	22.01	915.47
MW-4	932.33	932.09	17.90	913.99	DRY	DRY	17.94	914.15	18.34	913.75	16.70	915.39	16.81	915.28
MW-5	934.42	934.19	20.02	914.06	20.68	913.40	19.93	914.26	20.15	914.04	18.65	915.54	18.71	915.48
MW-6	925.93	925.78	13.35	912.30	13.99	911.66	13.14	912.64	13.59	912.19	11.65	914.13	12.05	913.73
MW-7	935.95	935.90	20.56	915.02	21.27	914.31	20.56	915.34	20.66	915.24	19.54	916.36	19.45	916.45
MW-8	923.36	923.05	13.84	909.08	14.09	908.83	14.61	908.44	13.75	909.30	12.43	910.62	12.91	910.14
MW-9	919.56	919.44	7.11	912.12	8.21	911.02	7.30	912.14	7.70	911.74	5.74	913.70	5.96	913.48
MW-10	918.24	917.99	14.86	903.02	15.15	902.73	13.82	904.17	15.29	902.70	11.68	906.31	12.66	905.33
MW-11	935.89	935.81	21.21	NS	22.00	NS	21.22	914.59	21.38	914.43	19.93	915.88	19.92	915.89
MW-12	935.52	935.15	19.65	NS	20.69	NS	19.95	915.20	20.05	915.10	19.03	916.12	18.81	916.34
MW-13	922.85	922.36	11.72	NS	11.72	NS	11.42	910.94	11.05	911.31	10.39	911.97	10.84	911.52
MW-14	908.43	908.25	NI	NI	NI	NI	47.69	860.56	47.98	860.27	45.69	862.56	45.21	863.04
MW-15	903.79	903.57	NI	NI	NI	NI	43.14	860.43	43.44	860.13	41.15	862.42	40.66	862.91
MW-16	903.88	903.61	NI	NI	NI	NI	43.15	860.46	43.44	860.17	21.17	882.44	40.68	862.93
MW-17	894.24	894.74	NI	NI	NI	NI	NI	NI	NI	NI	32.06	862.68	31.61	863.13
MW-18	898.15	898.48	NI	NI	NI	NI	NI	NI	NI	NI	36.43	862.05	35.99	862.49
MW-19	894.84	895.38	NI	NI	NI	NI	NI	NI	NI	NI	30.96	864.42	32.41	862.97
PZ-1	932.34	933.97	39.95	891.87	40.38	891.44	40.14	893.83	39.21	894.76	40.00	893.97	39.82	894.15
PZ-2	934.27	932.02	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
PZ-3	NS	923.13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

Notes: All USGS elevation data in feet above mean sea level.
All depth to water data in feet below top of casing.
KPRG and Associates, Inc. data begins 8/20/09.
Wells resurveyed for the 6/1/16 sampling.
NS- Not Surveyed
NM- Not Measured
NI - Not Installed
DRY- Well was dry

Table 2. Summary of Groundwater Analytical Results - former Bask Dry Cleaners

Sample	WDNR NR 140 Standards		MW-1														MW-3													
Parameter Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/01/16	09/20/16	05/22/17	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/24/17
cis-1,2-Dichloroethene	7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17	<0.37	<0.37	<0.37	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.77 J**	**1.6**	<0.17	<0.17	<0.37	**0.53**	<0.37
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	4.99	3.76	4.55	5.01	5.27	6.04	5.18	5.13	4.38	6.15	6.97	5.55	5.61	U	0.10	0.75	0.02	0.03	0.30	0.13	0.02	0.07	0.12	0.50	1.37	0.13	0.14
Oxidation-Reduction Potential	NE	NE	U	37.2	285	273	287.2	49.9	267.9	212.8	87.7	181.9	201.3	77.8	150.5	224.1	U	-130	97.7	-162.5	54.2	-34.1	33.6	142.3	73.4	43.7	54.7	256.4	147.8	101.3

Sample	WDNR NR 140 Standards		MW-4														MW-5													
Parameter Date	PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/23/14	06/30/15	06/01/16	09/23/16	05/25/17	06/19/08	08/21/09	12/07/09	03/18/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	07/01/15	06/02/16	09/23/16	05/24/17
cis-1,2-Dichloroethene	7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.12	NS	<0.41	<0.41	<0.41	**54.6**	<4.0	3.6 J	**170**	**17**	**1,500**	**1,300**	**470**	**370**	**100**	**39**	**7.2**	**7.2**	**49**
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.25	NS	<0.35	<0.35	<0.35	<17.8	<4.0	<2.0	<0.20	<1.0	15	18 J	5.0	3.2	2.1	2.8	3.9	1.6	5.3
Tetrachloroethene	0.5	5.0	**217**	<0.50	**3.2**	**3.2**	**0.69 J**	<0.50	**1.8 J**	NS	NS	**1.4**	NS	<0.37	**0.88**	<0.37	**1,840**	**180**	**180**	**660**	**96**	**200**	**46**	**2.3**	**3.6**	**1.3**	**0.64**	**8.4**	**5.3**	<0.37
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.19	NS	<0.16	<0.16	<0.16	**16.7**	<1.6	**2.9**	**49**	**6.6**	**38**	**60**	**1.1**	**1.7**	0.26	**4.3**	**1.4**	**6.2**	**2.4**
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.10	NS	<0.20	<0.20	<0.20	U	<1.6	<0.80	<0.80	<0.40	**12**	**9.0 J**	**7.3**	**2.5**	**0.89**	**8.9**	**1.1**	**1.2**	**8.5**
Dissolved Oxygen (mg/l)	NE	NE	U	2.75	1.31	5.20	1.10	1.67	NM	NS	NS	1.66	NS	3.64	5.21	1.97	U	3.18	0.66	NM	5.03	1.77	0.15	0.43	0.16	0.16	0.73	0.86	0.09	0.18
Oxidation-Reduction Potential	NE	NE	U	-82	209	-1.7	143.5	-4.6	NM	NS	NS	78.4	NS	240.0	49.6	193.2	U	30	-158	NM	-27.8	-13.7	-116.1	-71.4	-50.7	-56.9	-73.6	-96.7	-88.2	-66.1

Sample	WDNR NR 140 Standards		MW-6														MW-7													
Parameter Date	PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/25/17	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/02/16	09/23/16	05/24/17
cis-1,2-Dichloroethene	7.0	70	**44.5**	NS	**21 J**	**26 J**	**26 J**	**3,400**	**1,900**	**240**	**82**	**190**	**35**	**19**	**76**	**61**	2.5	0.86 J	<0.50	<0.50	<0.50	0.62 J	<0.50	4.3	3.4	1.3	<0.12	<0.41	0.84	<0.41
trans-1,2-Dichloroethene	20	100	<4.4	NS	<20	<16	<8.0	**37**	**50**	11	3.9	9.2	1.6	1.0	3.5	2.4	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	1.8	0.74	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	**653**	NS	**1,700**	**1,400**	**500**	**430**	**400**	**320**	**260**	**220**	**140**	**70**	**96**	**99**	**48.5**	**22**	**30**	**35**	**30**	**34**	**29**	**1.7**	**1.2**	<0.17	<0.17	**1.5**	**2.1**	**9.0**
Trichloroethene	0.5	5.0	**8.9**	NS	**8.4 J**	**690**	**640**	**450**	**230**	**160**	**57**	**69**	**22**	**6.5**	**13**	**17**	**4.7**	**3.2**	**1.9**	**1.4**	**2.0**	**11**	**2.8**	**18**	**10**	**6.0**	**2.3**	**2.2**	**7.8**	**4.8**
Vinyl Chloride	0.02	0.2	U	NS	<8.0	<6.4	<3.2	<2.0	<4.0	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	**0.28**	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	NS	2.43	0.64	1.20	0.33	0.46	0.77	3.74	0.08	0.94	1.93	0.24	0.4	U	2.84	2.10	1.86	1.80	0.61	0.05	0.38	0.00	0.21	0.64	1.83	0.55	1.16
Oxidation-Reduction Potential	NE	NE	U	NS	-46.7	-171.2	-117.8	-30.7	13.1	-18.1	75.2	92.2	78.5	100.3	81.8	110.8	U	-53.4	-194	-199.9	-142.9	-90.6	-196.8	-106.3	-36.7	-62.8	-71.6	-70.7	-48.8	-8.7

Sample	WDNR NR 140 Standards		MW-8														MW-9													
Parameter Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/23/17	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/23/17
cis-1,2-Dichloroethene	7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	<0.45	<0.50	<0.50	<0.50	<0.50	**1.2 J**	<0.50	**1.3**	**1.7**	**1.8**	**2.7**	**1.8**	**2.9**	**0.53**	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17	<0.37	<0.37	<0.37
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	**0.58 J**	<0.20	**0.62**	0.41	0.36	<0.19	<0.16	<0.16	<0.16	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	2.57	4.96	3.91	6.00	1.86	7.05	3.92	1.44	1.80	3.09	4.89	2.11	6.77	U	4.93	3.83	5.84	4.91	4.80	4.98	4.27	4.71	3.65	5.61	6.06	3.94	4.74
Oxidation-Reduction Potential	NE	NE	U	-60.7	143	212.9	80.5	-1.2	127.07	61.5	76.5	137.7	123.3	240.2	195.1	168.2	U	-67.9	60	-44.1	26.2	18.5	74.13	159.2	70.6	74.7	73.3	63.2	117.7	3.8

Sample	WDNR NR 140 Standards		MW-10													MW-11												
Parameter Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/18/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/23/17	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/02/16	09/22/16	05/24/17
cis-1,2-Dichloroethene	7.0	70	<0.83	2.5	2.2	<0.50	1.0 J	1.5 J	1.1 J	0.77 J	<0.12	**12.0**	4.3	2.8	**7.7**	2.7	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	**2.8**	**15**	**11**	**7.4**	**13**	**13**	**13**	**13**	**12**	**11**	**14**	**9.6**	**16**	**9.9**	**6.5**	**2.9**	**1.8**	**3.1**	**3.9**	**1.7 J**	**4.6**	**1.4**	**2.5**	**1.1**	**1.5**	**1.4**	**1.1**	**3.5**
Trichloroethene	0.5	5.0	<0.48	**0.94**	**1.2**	0.41 J	**0.85 J**	**1.7 J**	**0.93 J**	**0.89**	**0.85**	**4.0**	**3.5**	**1.9**	**4.4**	**1.5**	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	5.19	4.24	NM	5.01	3.46	6.46	5.15	7.25	4.67	7.85	7.19	7.33	8.06	U	2.66	2.31	5.82	3.55	1.81	2.23	1.77	2.43	1.78	3.15	4.13	4.27	4.38
Oxidation-Reduction Potential	NE	NE	U	-60.7	154	NM	145.9	14.1	155.3	103.3	74.9	136.9	114.0	275.2	180.9	165.9	U	-84.2	155	121.1	-23.4	-9.0	59.7	184.9	69.7	118.9	79.0	147.3	144.0	184.4

Sample	WDNR NR 140 Standards		MW-12													MW-13												
Parameter Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/23/16	05/24/17	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/03/16	09/22/16	05/25/17
cis-1,2-Dichloroethene	7.0	70	2.0	2.1	2.6	1.4 J	1.3 J	2.2	1.3 J	2.9	1.7	NS	2.5	1.4	1.9	<0.41	**34.8**	**26**	**25**	**24**	**17**	**16**	**40**	**23**	**9.7**	**16**	**16**	**16**	**20**	**27**
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	NS	<0.25	<0.35	<0.35	<0.35	1.1	1.7	0.80 J	1.6 J	0.79 J	0.74 J	1.30 J	1.1	0.62	<0.25	0.95	0.86	1.1	0.93
Tetrachloroethene	0.5	5.0	**48.7**	**54**	**34**	**31**	**51**	**19**	**49**	**23**	**29**	NS	**22**	**12**	**12**	**24**	**13.8**	**63**	**58**	**54**	**41**	**39**	**60**	**40**	**32**	**21**	**32**	**27**	**36**	**39**
Trichloroethene	0.5	5.0	**4.3**	**4.6**	**2.8**	**3.5**	**4.6**	**2.3**	**3.8**	**2.5**	**1.9**	NS	**1.5**	**0.96**	**0.89**	**1.1**	**1.7**	**2.6**	**2.4**	**3.1**	**2.1**	**6.5**	**18**	**11**	**6.5**	**3.9**	**4.1**	**3.2**	**3.9**	**4.3**
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	NS	<0.10	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	2.98	2.34	7.14	2.97	1.25	2.67	2.35	3.78	NS	3.61	4.52	2.53	5.37	U	0.09	1.23	0.45	0.31	0.39	0.52	1.04	0.36	0.37	1.07	0.95	0.09	1.18
Oxidation-Reduction Potential	NE	NE	U	-70.4	175	144.7	126.6	-16.0	56.36	22.9	79.6	NS	86.3	223.2	189.3	194.9	U	-117	56.9	53.6	47.2	-13.2	21.1	-18.1	57.0	36.8	22.8	51.3	-53.9	76.6

Sample	WDNR NR 140 Standards		MW-14			MW-15			MW-16			MW-17		MW-18		MW-19	
Parameter Date	PAL	ES	06/01/16	09/20/16	05/23/17	06/01/16	09/20/16	05/23/17	06/02/16	09/22/16	05/23/17	05/22/17	09/29/17	05/22/17	09/29/17	05/23/17	09/29/17
cis-1,2-Dichloroethene	7.0	70	<0.41	<0.41	<0.41	4.1	**13**	**15**	1.2	1.0	0.93	<0.41	<0.41	<0.41	<0.41	**12**	**15**
trans-1,2-Dichloroethene	20	100	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	**0.7**	**2.4**	**2.0**	**57**	**130**	**130**	**49**	**54**	**53**	<0.37	<0.37	<0.37	<0.37	**48**	**55**
Trichloroethene	0.5	5.0	<0.16	<0.16	<0.16	**0.99**	**2.8**	**3.4**	**0.8**	**0.92**	**0.68**	<0.16	<0.16	<0.16	<0.16	**2.0**	**2.6**
Vinyl Chloride	0.02	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	5.75	5.26	5.48	4.70	4.56	4.54	5.41	7.06	6.71	2.01	2.62	2.09	4.10	7.75	6.52
Oxidation-Reduction Potential	NE	NE	-29.1	0.3	106.8	-3.7	22.5	132.3	-39.2	102.1	177.3	13.1	263.4	23.8	219.4	186.6	196.5

Sample	WDNR NR 140 Standards		PZ-1													
Parameter Date	PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	07/01/15	06/01/16	09/23/16	05/24/17
cis-1,2-Dichloroethene	7.0	70	0.97	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.41	<0.41	<0.41
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.35	<0.35	<0.35
Tetrachloroethene	0.5	5.0	**0.54**	<0.50	<0.50	<0.50	<0.50	**1.4 J**	<0.50	<0.17	**1.6**	<0.17	<0.17	<0.37	<0.37	<0.37
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.16	<0.16	<0.16
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20
Dissolved Oxygen (mg/l)	NE	NE	U	4.31	1.82	5.64	1.45	0.71	1.12	4.33	4.64	2.80	2.43	4.68	4.14	2.21
Oxidation-Reduction Potential	NE	NE	U	-69.9	183	-76.8	71.8	-11.3	5.83	101	43.4	117.2	54.0	260.4	78.5	91.6

Notes: All values are in µg/l unless otherwise noted.
PAL - Preventative Action Limit
ES - Enforcement Standard
NE - Standard Not Established

NS - Not Sampled
NM - Not Measured
U Pre Injection Data (unknown)

BOLD - Result exceeds the PAL
BOLD - Result exceeds the ES

ET - Endpoint timeout caused by matrix interference.
J - Estimated value. Result between method detection limit and limit of quantification.
M - The MS and or MSD were outside control limits.
pH - The pH was outside range and the sample was adjusted.

Table 3. Summary of Soil Vapor Data for Chlorinated Compounds Only - Former Bask Dry Cleaners

Sample Name	WDNR Residential VRSL		SV-1	SV-1A	SV-1B					SV-2	SV-2A				
Parameter Date	Sub-Slab	Deep Soil	03/02/05	11/02/12	12/11/12	10/01/14	12/27/14	06/25/15	03/31/16	03/02/05	11/02/12	10/01/14	12/27/14	06/25/15	03/31/16
1,1-Dichloroethene	7,000	21,000	ND	16	<0.79	<7.9	<0.79	<0.79	NA	ND	<0.79	<16	<0.79	1.3	NA
cis-1,2-Dichloroethene	NC	NC	ND	<0.79	<0.79	<7.9	<0.79	<0.79	<0.79	ND	<0.79	<16	<0.79	<0.79	<0.79
trans-1,2-Dichloroethene	NC	NC	ND	<0.79	<0.79	<7.9	<0.79	<0.79	<0.79	ND	<0.79	<16	<0.79	<0.79	<0.79
Tetrachloroethene	1,400	4,200	29.64	2,000	880	2,800	600	1,200	621	5.03	3.3	**4,500**	390	3.5	1,790
Trichloroethene	70	210	ND	12	1.7	<11	<1.1	1.2	<0.51	ND	<1.1	**460**	29	<1.1	81.5

Sample Name	WDNR Residential VRSL		SV-3				SV-4				SV-5			
Parameter Date	Sub-Slab	Deep Soil	09/30/14	12/27/14	06/25/15	03/31/16	09/30/14	12/27/14	06/25/15	03/31/16	09/30/14	12/27/14	06/25/15	03/31/16
1,1-Dichloroethene	7,000	21,000	<3.2	<0.79	<0.79	NA	<40	<0.79	<3.2	NA	3.3	<0.79	<0.79	NA
cis-1,2-Dichloroethene	NC	NC	<3.2	<0.79	<0.79	<0.79	270	11	520	46.3	<0.79	<0.79	<0.79	<0.79
trans-1,2-Dichloroethene	NC	NC	<3.2	<0.79	<0.79	<0.79	310	10	120	<0.79	<0.79	<0.79	<0.79	<0.79
Tetrachloroethene	1,400	4,200	**7,500**	3,500	3,100	1,470	**81,000**	1,100	**16,000**	**8,870**	4.5	<1.4	2,700	6.07
Trichloroethene	70	210	120	35	14	15.4	**6,400**	160	**1,200**	**478**	<1.1	<1.1	120	1.73

Sample Name	WDNR Residential VRSL		SV-6				SV-7				SV-8				SV-9		
Parameter Date	Sub-Slab	Deep Soil	09/30/14	12/27/14	06/25/15	03/31/16	09/30/14	12/27/14	06/25/15	03/31/16	09/30/14	12/27/14	06/25/15	03/31/16	12/27/14	06/25/15	03/31/16
1,1-Dichloroethene	7,000	21,000	1.3	<0.79	<0.79	NA	<20	<0.79	<0.79	NA	<7.9	<0.79	<0.79	NA	<6.3	<0.79	NA
cis-1,2-Dichloroethene	NC	NC	<0.79	<0.79	<0.79	<0.79	<20	<0.79	<0.79	<0.79	<7.9	<0.79	<0.79	<0.79	180	<0.79	<0.79
trans-1,2-Dichloroethene	NC	NC	<0.79	<0.79	<0.79	<0.79	<20	<0.79	<0.79	<0.79	<7.9	<0.79	<0.79	<0.79	<6.3	<0.79	<0.79
Tetrachloroethene	1,400	4,200	8.8	1.5	<1.4	3.69	750	110	68	10.9	<14	<1.4	5.0	1.73	**5,000**	81	5.79
Trichloroethene	70	210	<1.1	<1.1	<1.1	<1.1	140	27	17	1.17	<11	<1.1	<1.1	1.36	91	<1.1	<1.1

Sample Name	WDNR Residential VRSL		SV-10			SV-11			SV-12				SV-13		SV-14	SV-15	
Parameter Date	Sub-Slab	Deep Soil	12/27/14	06/25/15	03/31/16	12/27/14	06/25/15	03/31/16	06/25/15	07/28/15	03/31/16	06/15/17	03/31/16	06/15/17	03/31/16	03/31/16	06/15/17
1,1-Dichloroethene	7,000	21,000	<0.79	<0.79	NA	<0.79	<0.79	NA	<3.2	< 0.79	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NC	NC	6.3	22	<0.79	<0.79	<0.79	<0.79	14	15	37.2	197	<0.79	<0.52	<0.79	<0.79	<0.52
trans-1,2-Dichloroethene	NC	NC	1.3	1.3	<0.79	<0.79	<0.79	<0.79	4.4	5.2	<0.79	29.8	<0.79	<0.61	<0.79	<0.79	<0.61
Tetrachloroethene	1,400	4,200	750	3,900	2,200	3.2	5.3	2.46	**11,000**	**27,000**	**5,370**	**34,700**	407	552	5.98	47.9	111
Trichloroethene	70	210	33	190	27.0	<1.1	<1.1	<1.1	75	140	77.1	**458**	<1.1	<0.98	<1.1	<1.1	<0.98

Notes : All values in ug/m^3.
It is noted that 111-TCA was detected below standard at SV-7 on 12/27/14.
It is noted that Methylene Chloride was detected below standard at SV-4, SV-5 and SV-6 on 9/30/14.
VRSL - Vapor Risk Screening Level
BOLD - Result exceeds the Deep Soil VRSL

NA - Not Analyzed
NC - Not Calculated
ND - Not Detected

Table 4. Additional Well Install and Sampling Budget Summary - Former Bask Dry Celaners, Waukesha WI
November 11, 2017

			Contractors					
Task	KPRG Labor	Expenses	Analytical	Driller	IDW Disposal	SSDS	Surveyor	Totals
1) Additional Requested Work Planning and Coordination	$3,301	$300	$0	$0	$0	$0	$0	$3,601
2) New Well Installation Costs	$2,806	$1,180	$0	$5,000	$1,750	$0	$1,200	$11,936
3) Additional Groundwater Sampling	$3,350	$1,330	$1,040	$0	$0	$0	$0	$5,720
4) Additional Reporting	$2,772	$50	$0	$0	$0	$0	$0	$2,822
Totals	$12,229	$2,860	$1,040	$5,000	$1,750	$0	$1,200	$24,079

ATTACHMENT 1

WELL LOGS AND CONSTRUCTION SUMMARIES

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name: former Bask Dry Cleaners	License/Permit/Monitoring Number:	Boring Number: MW-17

Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jason Last Name: Drabek Firm: Cascade Drilling, L.P.	Date Drilling Started 0 4 1 7 2 0 1 7 m m/ d d/ y y y y	Date Drilling Completed 0 4 1 7 2 0 1 7 m m/ d d/ y y y y	Drilling Method Sonic

WI Unique Well No.	DNR Well ID No.	Well Name MW-17	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 6 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
NE 1/4 of NE 1/4 of Section 36, T 7 N, R 19 E
Lat _____ Long _____

Local Grid Location
___ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID: 268188800	County: Waukesha	County Code: 68	Civil Town / City / or Village: Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Grass and dark brown clayey top soil, sl moist.										
			2	Dark Brown, SILTY CLAY, some sand and gravel.				0						
			4					0						
	5		6	Light Brown SILTY CLAY, with sand, gravel and cobbles, slightly moist.				0						
			8					0						
			10					0						
	5		12	Light Brown SILTY SAND, with gravel and cobbles, slightly moist.				0						
			14					0						
	5		16	- occasional layers of coarser and finer material				0						
			18					0						
			20					0						
	5		22	Tan SILTY SAND and GRAVEL, some, cobbles, slightly moist.										

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

Signature:  Firm: KPRG and Associates, Inc.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			24					0						
			26					0						
	5		28					0						
			30					0						
	5		32					0						
			34					0						
	5		36					0						
			38					0						
	5		40					0						
			42					0						
	5		44											
			46	End of Boring at 45 feet.										
			48											
			50											
			52											
			54											
			56											
			58											
			60											
			62											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Bask Dry Cleaners		MW-18

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Jason Last Name: Drabek Firm: Cascade Drilling, L.P.	04/17/20/07	04/17/20/07	Sonic

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-18	Feet MSL	Feet MSL	6 inches

Local Grid Origin (estimated:) or Boring Location
State Plane N, E
NE 1/4 of NE 1/4 of Section 36, T 7 N, R 19 E
Lat Long

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / or Village
268188800	Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Grass and dark brown clayey top soil, sl moist.										
			2	Black SILTY CLAY, some gravel, moist.										
				Dark Brown SILTY CLAY, some sand and gravel, slightly moist.				0						
			4					0						
	5		6					0						
				Brown SILTY CLAY, some sand and gravel, slightly moist.										
			8					0						
			10					0						
	5			Tan FINE SAND and SILT, some clay and coarse gravel to cobbles, moist.										
			12					0						
			14					0						
				- interlayered above and below material										
			16					0						
	5			Tan SAND, fine to coarse, some silt and medium to coarse gravel, slightly moist.										
			18					0						
			20					0						
	5													
			22											

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

Signature	Firm
	KPRG and Associates, Inc.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			24					0						
								0						
			26	Tan FINE SAND and SILT, slightly moist.				0						
	5		28					0						
				Tan SAND and GRAVEL, fine to medium										
			30	sand, trace silt, clay and cobbles, sl moist.				0						
			32					0						
	5													
			34					0						
			36					0						
	5													
			38	- wet				0						
			40					0						
	5		42					0						
			44	Tan SAND, fine to medium, some silt and				0						
				coarse sand and cobbles, wet.										
			46					0						
			48											
			50	End of Boring at 48 feet.										
			52											
			54											
			56											
			58											
			60											
			62											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name: former Bask Dry Cleaners	License/Permit/Monitoring Number:	Boring Number: MW-19

Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jason Last Name: Drabek Firm: Cascade Drilling, L.P.	Date Drilling Started 04m 01d 8d/ 2y 0y 1y 7y	Date Drilling Completed 04m 01d 8d/ 2y 0y 1y 7y	Drilling Method Sonic

WI Unique Well No.	DNR Well ID No.	Well Name: MW-19	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 6 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
NE 1/4 of NE 1/4 of Section 36, T 7 N, R 19 E
Lat _____ Long _____

Local Grid Location
___ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID: 268188800	County: Waukesha	County Code: 68	Civil Town / City / or Village: Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Grass and dark brown clayey top soil, sl moist.				0						
			4	Light Brown SILTY SAND and GRAVEL, some cobbles, trace clay, moist.				0						
	5		6	- slightly moist.				0						
			8					0						
			10					0						
	5		12					0						
			14					0						
	5		16					0						
			18					0						
	4		20					0						
			22											

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

Signature	Firm
	KPRG and Associates, Inc.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			24					0						
			26					0						
	6		28					0						
			30					0						
			32					0						
	4		34					0						
			36					0						
			38	- wet				0						
	6		40					0						
			42					0						
			44											
			46											
			48	End of Boring at 45 feet.										
			50											
			52											
			54											
			56											
			58											
			60											
			62											

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: Former Bask Dry Cleaners	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-17
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 268188800	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/17/2017 (m m / d d / y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 36, T. 7 N, R. 19 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Drabek, Jason; Cascade Drilling, LP
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 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 ☒ Sonic

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 ft.

F. Fine sand, top _____ ft. MSL or 26 ft.

G. Filter pack, top _____ ft. MSL or 28 ft.

H. Screen joint, top _____ ft. MSL or 30 ft.

I. Well bottom _____ ft. MSL or 45 ft.

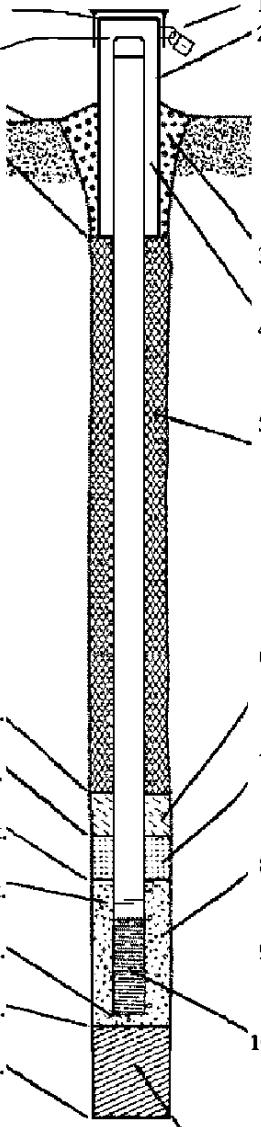
J. Filter pack, bottom _____ ft. MSL or 45 ft.

K. Borehole, bottom _____ ft. MSL or 45 ft.

L. Borehole, diameter 6 in.

M. O.D. well casing _____ in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 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. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature	Firm
	KPRG and Associates, Inc.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Former Bask Dry Cleaners	Waukesha	MW-17

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	6 8	_ _ _ _ _ _	_ _ _

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 surged with pump and pumped	☒

3. Time spent developing well __ __60__ min.

4. Depth of well (from top of well casisng) __ 45 __ . __ ft.

5. Inside diameter of well __ 2 . __ __ in.

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

7. Volume of water removed from well __ 50 __ . __ gal.

8. Volume of water added (if any) __ __ 0 . __ gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __ 33 . 3 __ ft.	__ 40 __ . 0 __ ft.
Date	b. 04/17/2017 (mm/dd/yyyy)	04/17/2017 (mm/dd/yyyy)
Time	c. __ __ : __ __ ☐ a.m. ☐ p.m.	__ __ : __ __ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__ 1 . __ inches	__ 0 . __ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Jason Last Name: Drabek
Firm: Cascade Drilling, LP

17. Additional comments on development:

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

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Patrick Allenstein
Firm: KPRG and Associates, Inc.

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

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: Former Bask Dry Cleaners	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-18
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 268188800	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/17/2017 (m m / d d / y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 36, T. 7 N, R. 19 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Drabek, Jason; Cascade Drilling, LP
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 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 ☒ Sonic

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 ft.

F. Fine sand, top _____ ft. MSL or 28 ft.

G. Filter pack, top _____ ft. MSL or 30 ft.

H. Screen joint, top _____ ft. MSL or 33 ft.

I. Well bottom _____ ft. MSL or 48 ft.

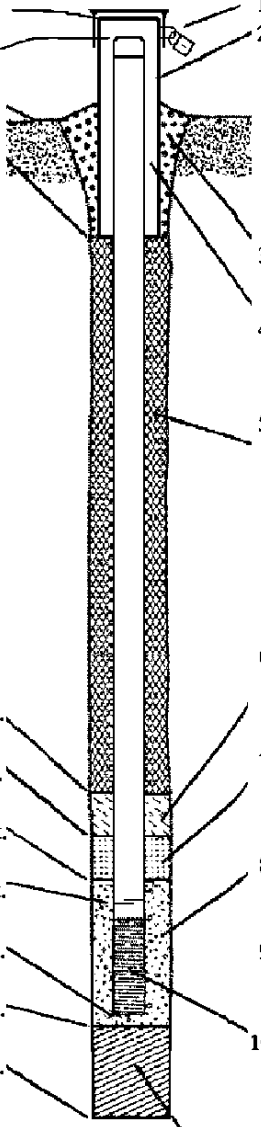
J. Filter pack, bottom _____ ft. MSL or 48 ft.

K. Borehole, bottom _____ ft. MSL or 48 ft.

L. Borehole, diameter 6 in.

M. O.D. well casing _____ in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 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. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature	Firm
	KPRG and Associates, Inc.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Former Bask Dry Cleaners	Waukesha	MW-18

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68		

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 surged with pump and pumped	☒

3. Time spent developing well 50 min.

4. Depth of well (from top of well casisng) 48 ft.

5. Inside diameter of well 2 in.

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

7. Volume of water removed from well 40 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 37.7 ft.	47.0 ft.
Date	b. 04/17/2017 (mm/dd/yyyy)	04/17/2017 (mm/dd/yyyy)
Time	c. ☐ a.m. ☐ p.m.	☐ a.m. ☐ p.m.
12. Sediment in well bottom	1 inches	0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Jason Last Name: Drabek
Firm: Cascade Drilling, LP

17. Additional comments on development:

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

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Patrick Allenstein
Firm: KPRG and Associates, Inc.

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

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: Former Bask Dry Cleaners	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-19
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 268188800	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/18/2017 (m m / d d / y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 36, T. 7 N, R. 19 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Drabek, Jason; Cascade Drilling, LP
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 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 ☒ Sonic

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 ft.

F. Fine sand, top _____ ft. MSL or 25.5 ft.

G. Filter pack, top _____ ft. MSL or 27.5 ft.

H. Screen joint, top _____ ft. MSL or 29.5 ft.

I. Well bottom _____ ft. MSL or 44.5 ft.

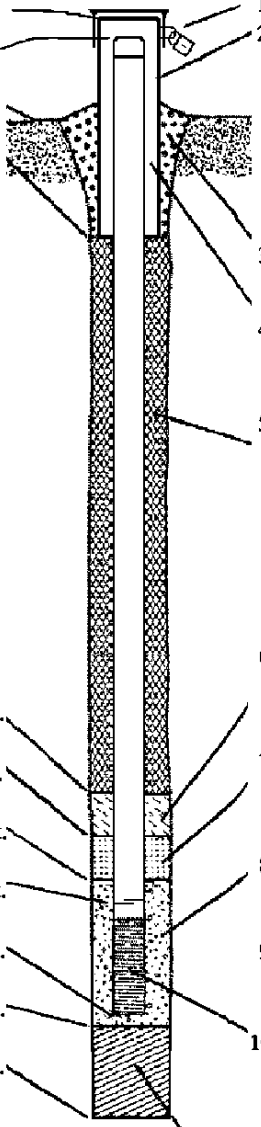
J. Filter pack, bottom _____ ft. MSL or 44.5 ft.

K. Borehole, bottom _____ ft. MSL or 45 ft.

L. Borehole, diameter 6 in.

M. O.D. well casing _____ in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12 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. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature	Firm
	KPRG and Associates, Inc.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Former Bask Dry Cleaners	Waukesha	MW-18

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	68		

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 surged with pump and pumped ☒

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 44 ft.

5. Inside diameter of well 2 in.

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

7. Volume of water removed from well 85 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	35.5 ft.	40.0 ft.
Date b.	04/17/2017 (m m d d y y y y)	04/17/2017 (m m d d y y y y)
Time c.	☐ a.m. ☐ p.m.	☐ a.m. ☐ p.m.
12. Sediment in well bottom	1. inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

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

16. Well developed by: Name (first, last) and Firm
First Name: Jason Last Name: Drabek
Firm: Cascade Drilling, LP

17. Additional comments on development:

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

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Patrick Allenstein
Firm: KPRG and Associates, Inc.

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

ATTACHMENT 2

DETAILED COSTING SHEETS

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 1 Additional Requested Work Planning/Coordination

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		8	$1,080.00
Field Eng./Sci.	$68		32	$2,176.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$3,301.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	0	$0.00
Sampling Supplies	$20	Daily	0	$0.00
Waukesha Fees	$300	Est.	1	$300.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$300.00

Contractors	Rate	Type	Units	Total
None.				$0.00
			Total Contractors	$0.00

TASK TOTAL:	$3,601.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 2 Monitoring Well Installation

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		4	$540.00
Field Eng./Sci.	$68		32	$2,176.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		2	$90.00
			Total Labor	$2,806.00

External Expenses	Rate	Type	Units	Total
PID	$75	Daily	2	$150.00
Field Vehicle	$60	Daily	3	$180.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	10	$550.00
Waukesha Permit	$300	Est.	1	$300.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$1,180.00

Contractors	Rate	Type	Units	Total
Cascade	$5,000	Est.	1	$5,000.00
Surveyor	$1,200	Est.	1	$1,200.00
IDW Disposal	$175	per Drum	10	$1,750.00
			Total Contractors	$7,950.00

TASK TOTAL:	$11,936.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 3 Additional Groundwater Sampling

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		4	$540.00
Field Eng./Sci.	$68		40	$2,720.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		2	$90.00
			Total Labor	$3,350.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	4	$240.00
Water Quality Meter	$175	Daily	4	$700.00
Water Depth Meter	$25	Daily	4	$100.00
Disposable Bailers	$15	Ea.	16	$240.00
Shipping	$50	Est.	1	$50.00
			Total Expenses	$1,330.00

Contractors	Rate	Type	Units	Total
Analytical	$65	Est.	16	$1,040.00
			Total Contractors	$1,040.00

TASK TOTAL:	$5,720.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 4 Additional Reporting

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		6	$810.00
Field Eng./Sci.	$68		24	$1,632.00
CADD	$60		4	$240.00
Admin. Asst/ Word Proc.	$45		2	$90.00
			Total Labor	$2,772.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	0	$0.00
Water Quality Meter	$175	Daily	0	$0.00
Water Depth Meter	$25	Daily	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
Reproduction	$50	Est.	1	$50.00
			Total Expenses	$50.00

Contractors	Rate	Type	Units	Total
None.				$0.00
			Total Contractors	$0.00

TASK TOTAL:	$2,822.00

$24,079.00